

Department of Conservation

Division of Oil, Gas, and Geothermal Resources – District 3

195 South Broadway • Suite 101

Orcutt, CA 93455

(805) 937-7246 • FAX (805) 937-0673

December 30, 2015

Ben Oakley, Agent
ERG Operating Company LLC
6085 Cat Canyon Rd.
Santa Maria, CA 93454

Dear Mr. Oakley:

ADDITIONAL TESTING REQUIRED – IDLE WELLS

The results of recent idle well fluid level tests are inconclusive or indicate fluid levels above the base of freshwater (BFW) for a number of wells (listed in Tables 1-4 included with this letter). Under California Code of Regulations (CCR) §1723.9 and Public Resources Code (PRC) §3106(a), additional well tests or remedial operations are required. Please complete successful additional testing on the wells in Table 1 by January 31, 2016, the wells in Table 2 by March 2, 2016, the wells in Table 3 by April 2, 2016, and the wells in Table 4 by May 3, 2016. Please notify this office of the testing schedule, and prior to each test, as a representative from this office may witness each test.

Failure to perform these tests may result in enforcement action, including, but not limited to, issuance of a civil penalty or a remedial work order pursuant to PRC §3236.5 and/or §3224.

Sincerely,

Patricia A. Abel,
District Deputy

AD:ar

cc: Well Files
Chrono
Follow-up
Idle Wells
Santa Barbara County

Table 1. Additional testing due by January 31, 2016.

Well	API	Most Recent Fluid Level Test Date	Fluid Level (feet)	Approximate BFW (feet)	Section	Township	Range
"Cantin" 15	083-01748	7/2/2015	279	1450	12	9N	33W
"Dominion" 28-23	083-01419	7/23/2015	868	1000	23	9N	33W
"Dominion" 34-23	083-01421	7/22/2015	620	1330	23	9N	33W
"Dominion" 35X	083-00693	7/22/2015	651	1400	23	9N	33W
"Dominion" 35-23	083-01422	7/22/2015	651	1412	23	9N	33W
"Dominion" 36-23	083-01423	7/22/2015	713	1040	23	9N	33W
"Dominion" 38-23	083-01424	7/22/2015	806	1070	23	9N	33W
"Dominion" 45-23	083-01425	7/22/2015	930	1350	23	9N	33W
"Dominion" 45A-23	083-22242	7/22/2015	434	1395	23	9N	33W
"Dominion" 46-23	083-01426	7/22/2015	868	1390	23	9N	33W
"Dominion" 47-23	083-01427	7/22/2015	806	1310	23	9N	33W
"Dominion" 48-23	083-01428	7/22/2015	837	1385	23	9N	33W
"Dominion" 58-23	083-01430	7/22/2015	1023	1190	23	9N	33W
"G.W.P." 157-24	083-21489	7/14/2015	496	1205	24	9N	33W
"G.W.P." 165-24	083-21490	7/21/2015	403	1175	24	9N	33W
"G.W.P." 166-24	083-21491	7/16/2015	434	1170	24	9N	33W
"G.W.P." 17-13	083-00712	7/22/2015	775	1140	13	9N	33W
"G.W.P." 178-24	083-21353	7/9/2015	837	1195	24	9N	33W
"G.W.P." 18-13	083-20201	7/22/2015	403	684	13	9N	33W
"G.W.P." 188-24	083-21701	7/9/2015	651	1250	24	9N	33W
"G.W.P." 266-24	083-21493	7/9/2015	558	1110	24	9N	33W
"G.W.P." 28-24	083-20343	7/9/2015	682	1130	24	9N	33W
"G.W.P." 28H	083-22246	7/9/2015	527	1150	24	9N	33W
"G.W.P." 303-24	083-21099	7/21/2015	248	1105	24	9N	33W
"G.W.P." 33-24	083-20956	7/21/2015	496	1005	24	9N	33W
"G.W.P." 34-24	083-21081	7/21/2015	310	850	24	9N	33W
"G.W.P." 347-24	083-22131	7/14/2015	527	1195	24	9N	33W
"G.W.P." 405-24	083-20948	7/16/2015	465	1160	24	9N	33W
"G.W.P." 406-24	083-20865	7/14/2015	341	1210	24	9N	33W

Table 2. Additional testing due by March 2, 2016.

Well	API	Most Recent Fluid Level Test Date	Fluid Level (feet)	Approximate BFW (feet)	Section	Township	Range
"G.W.P." 407-24	083-20866	7/14/2015	1054	1215	24	9N	33W
"G.W.P." 42-24	083-20220	7/21/2015	341	945	24	9N	33W
"G.W.P." 43-24	083-20900	7/21/2015	434	970	24	9N	33W
"G.W.P." 502-24	083-21154	7/21/2015	589	880	24	9N	33W
"G.W.P." 503A-24	083-21324	7/21/2015	682	1250	24	9N	33W
"G.W.P." 504-24	083-20941	7/21/2015	372	1190	24	9N	33W
"G.W.P." 506-24	083-21165	7/16/2015	186	1270	24	9N	33W
"G.W.P." 538-24	083-21517	7/14/2015	372	1350	24	9N	33W
"G.W.P." 55A-24	083-21089	7/16/2015	527	1038	24	9N	33W
"G.W.P." 56-24	083-20139	7/14/2015	310	1280	24	9N	33W
"G.W.P." 58B-24	083-21352	7/16/2015	837	1050	24	9N	33W
"G.W.P." 648-24	083-21520	8/5/2015	1271	1360	24	9N	33W
"G.W.P." 658-24	083-21522	7/14/2015	248	1220	24	9N	33W
"G.W.P." 72-23	083-00704	7/22/2015	620	1410	23	9N	33W
"G.W.P." 73-23	083-00705	7/22/2015	558	1410	23	9N	33W
"G.W.P." 748-24	083-21526	7/14/2015	403	1220	24	9N	33W
"G.W.P." 757H-24	083-22252	7/9/2015	434	593	24	9N	33W
"G.W.P." 81-23	083-00706	7/22/2015	403	1410	23	9N	33W
"G.W.P." 847A-24	083-21789	7/14/2015	620	1230	24	9N	33W
"G.W.P." 848-24	083-21273	7/14/2015	372	1290	24	9N	33W
"G.W.P." 857-24	083-21290	7/14/2015	527	593	24	9N	33W
"G.W.P." 868-24	083-21551	7/9/2015	961	1260	24	9N	33W
"G.W.P." 927-24	083-21552	7/9/2015	372	1440	24	9N	33W
"G.W.P." 946-24	083-21296	7/14/2015	248	1330	24	9N	33W
"G.W.P." 966-24	083-21321	7/9/2015	496	1200	24	9N	33W
"Los Alamos" 206	083-21149	7/8/2015	775	968	36	9N	33W
"Tognazzini" 42	083-01406	7/2/2015	1333	1541	9	8N	32W
"Tognazzini" 43-A	083-01655	7/7/2015	527	2138	10	8N	32W
"Tognazzini" 6	083-01445	7/2/2015	217	280	9	8N	32W

Table 3. Additional testing due by April 2, 2016.

Well	API	Most Recent Fluid Level Test Date	Fluid Level (feet)	Approximate BFW (feet)	Section	Township	Range
"U.C.B." 0-11	083-00434	7/23/2015	496	1100	23	9N	33W
"U.C.B." 0-12	083-00435	7/23/2015	651	1108	23	9N	33W
"U.C.B." 0-18	083-00012	7/23/2015	620	1045	23	9N	33W
"U.C.B." 0-23	083-00137	7/22/2015	992	1160	23	9N	33W
"U.C.B." 0-9	083-21050	7/23/2015	682	1050	23	9N	33W
"Williams Holding" 105-25	083-20816	7/9/2015	620	1055	25	9N	33W
"Williams Holding" 106-25	083-20808	7/8/2015	651	980	25	9N	33W
"Williams Holding" 107-25	083-20856	7/8/2015	620	970	25	9N	33W
"Williams Holding" 16-25	083-20878	7/8/2015	558	1048	25	9N	33W
"Williams Holding" 17-25	083-20624	7/8/2015	496	1005	25	9N	33W
"Williams Holding" 1711-25	083-22084	7/9/2015	1054	1195	25	9N	33W
"Williams Holding" 17A-25	083-20882	7/8/2015	589	1000	25	9N	33W
"Williams Holding" 18-25	083-20939	7/23/2015	682	1100	25	9N	33W
"Williams Holding" 206-25	083-20819	7/9/2015	1054	1130	25	9N	33W
"Williams Holding" 207-25	083-20880	7/9/2015	620	1115	25	9N	33W
"Williams Holding" 26-25	083-20644	7/9/2015	992	1060	25	9N	33W
"Williams Holding" 27-25	083-20855	7/8/2015	682	1120	25	9N	33W
"Williams Holding" 276-25	083-22088	7/9/2015	186	1090	25	9N	33W
"Williams Holding" 28-25	083-20879	7/8/2015	527	1060	25	9N	33W
"Williams Holding" 603-25	083-21072	7/9/2015	992	1010	25	9N	33W
"Williams Holding" 61A-25	083-20614	7/9/2015	961	1155	25	9N	33W
"Williams Holding" 63-25	083-20614	7/9/2015	310	1040	25	9N	33W
"Williams Holding" 71A-25	083-00174	7/9/2015	1085	1175	25	9N	33W
"Williams Holding" 816-25	083-21561	7/9/2015	806	1040	25	9N	33W
"Williams Holding" 826-25	083-20836	8/5/2015	496	1200	25	9N	33W
"Williams Holding" 827-25	083-21562	7/9/2015	1147	1180	25	9N	33W
"Williams Holding" 861-25	083-21366	7/9/2015	93	1210	25	9N	33W
"Williams Holding" 88-25	083-21067	7/7/2015	992	1135	25	9N	33W
"Williams Holding" 916-25	083-21644	7/8/2015	620	1135	25	9N	33W
"Williams Holding" 926-25	083-21568	7/8/2015	558	1175	25	9N	33W

Table 4. Additional testing due by May 3, 2016.

Well	API	Most Recent Fluid Level Test Date	Fluid Level (feet)	Approximate BFW (feet)	Section	Township	Range
"Williams Holding" 927-25	083-21645	7/8/2015	651	960	25	9N	33W
"Williams Holding" 935-25	083-20838	7/8/2015	1302	1340	25	9N	33W
"Williams Holding" 962-25	083-21372	7/9/2015	868	1051	25	9N	33W
"WH-F" 388	083-22193	7/21/2015	961	1148	25	9N	33W
"Williams Fee" 172	083-21963	7/7/2015	496	1090	36	9N	33W
"Williams Fee" 601	083-20925	7/8/2015	1147	1210	36	9N	33W
"Williams Fee" 63	083-20776	7/8/2015	217	1010	36	9N	33W
"Williams Fee" 81	083-21151	7/7/2015	868	1080	36	9N	33W



DEPARTMENT OF CONSERVATION

Managing California's Working Lands

Division of Oil, Gas, & Geothermal Resources

5075 SO. BRADLEY ROAD • SUITE 221 • SANTA MARIA, CALIFORNIA 93455

PHONE 805 / 937-7246 • FAX 805 / 937-0673 • WEB SITE conservation.ca.gov

January 12, 2011

Scott Y. Wood, Agent
ERG Operating Company, Inc.
6085 Cat Canyon Road
Santa Maria, CA 93454

Re: "Tognazzini" 43-A, Section 10, T.8N R.32W, S.B. B&M
Cat Canyon Field

Dear Mr. Wood:

This office is returning the Notice to Rework / Redrill the subject well submitted by Venoco, Inc., dated October 1, 2010, and received in our office on October 5, 2010. In a telephone conversation with a Venoco, Inc. representative, we discussed the problem observed during preliminary testing at this location. The well could not be permitted for injection because the proposed injection zone is presently above hydrostatic pressure. To date, efforts to bleed the pressure off have not been successful.

If you would like to discuss this well and proposed reactivation to water disposal, please call our office at 805-937-7246.

Sincerely,

Patricia A. Abel
Supervising Deputy

JC:cb

Enclosure

cc: Well file
Project File
EPA Binder

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Carnahan, Jim

From: Carnahan, Jim
Sent: Friday, November 19, 2010 8:53 AM
To: 'frank.smith@venocoinc.com'
Subject: Tognazzini 43A

Morning Frank,

As a follow-up to our telephone conversation on Monday, November 15th, I understand the pressure on the subject well was 200 psig and flowed water when opened to the tank. As long as the formation pressure is above hydrostatic, we will be unable to issue a permit to inject water. I also understand you are going to flow the well to see if the pressure will bleed off to hydrostatic. If the well does bleed down to zero pressure, please notify our office so an engineer from our office can verify the pressure at zero.

We were also discussing the step rate test conducted in October and that you intended conducting another test. The step rate test conducted in October did establish a formation fracture gradient after accounting for the surface pressure attributable to friction at the higher injection rates. I did e-mail you a graph of that test. The maximum allowable surface pressure from that test is 560 psig plus friction flow loss; this is 90% of the actual fracture gradient observed. There have been prior step rate tests conducted on the subject well and this MASP is in line with the other tests. I'm not sure if another step rate test will provide different results.

I am currently holding your notice to recommence water disposal in the subject well. If you wish to cancel the permit, please let me know. If you don't want to cancel the notice, I will answer the notice but cannot approve injection to commence until the injection zone is at or below hydrostatic pressure and any mechanical issues with wells in the AOR you submitted are resolved. I haven't finished my review of AOR data and don't know if there are any mechanical issues with the wells yet.

If you have any questions or wish to meet with me to discuss the above or other issues, please let me know.

Thank you,

Jim Carnahan
Associate Oil & Gas Engineer
Santa Maria District 3

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon	District 3 - SANTA MARIA
Former owner Venoco, Inc.	Opcode: V1150 Date: December 27, 2010
Name and location of well(s)	
<u>Sec. 4, T. 8N, R. 32W S.B. B&M (4)</u> "Tognazzini" 3 (083-01443) "Tognazzini" 4 (083-00344) "Tognazzini" 17 (083-01455) "Tognazzini" 20 (083-20008) <u>Sec. 9, T. 8N, R. 32W S.B. B&M (21)</u> "Tognazzini" 1 (083-01440) "Tognazzini" 1-A (083-01398) "Tognazzini" 1-W (083-01441) "Tognazzini" 2 (083-01161) "Tognazzini" 2B (083-01442) "Tognazzini" 3 (083-01399) "Tognazzini" 3-A (083-01162) "Tognazzini" 6 (083-01445) "Tognazzini" 7 (083-01446) "Tognazzini" 8 (083-01447) "Tognazzini" 9 (083-01448)	<u>Sec. 9, T. 8N, R. 32W S.B. B&M</u> "Tognazzini" 14 (083-01452) "Tognazzini" 15 (083-01453) "Tognazzini" 16 (083-01454) "Tognazzini" 18 (083-01456) "Tognazzini" 20 (083-01401) "Tognazzini" 21-A (083-01402) "Tognazzini" 23 (083-01403) "Tognazzini" 31 (083-01404) "Tognazzini" 42 (083-01406) "Tognazzini" 51 (083-01407) <u>Sec. 10, T. 8N, R. 32W S.B. B&M (5)</u> "Tognazzini" 5 (083-01444) "Tognazzini" 32-B (083-01405) "Tognazzini" 43-A (083-01655) "Tognazzini" 52 (083-01408) "Tognazzini" 112 (083-01409)

CONTINUED ON PAGE 2

Date of transfer, sale, assignment, conveyance, or exchange 11-01-2010	New Owner ERG Operating Company, L.L.C.	Operator code E0255	Type of Organization Corporation
	Address 600 Travis, Suite 7050 Houston, TX 77002		Telephone No. (713) 812-1800

Reported by **ERG Operating Company, L.L.C.**

Confirmed by **Venoco, Inc.**

New operator new status PA	Request Designation of Agent
Old operator new status PA	Remarks Acquiring company has a blanket bond.

Deputy Supervisor
Patricia A. Abel

Signature



OPERATOR STATUS ABBREVIATIONS


PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	CB	12-27-10	Map and Book		
NPI - No Potential Inactive	Well records	CB	12-27-10	Lease Files	CB	
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	12-28-10
PAA:cb	Bond Status			District Computer Files	CB	12-28-10
cc: ERG Operating Co. LLC	Annual Report	CB	12-27-10			
Venoco, Inc.						

Santa Barbara County
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon		District. 3 - SANTA MARIA	
Former owner Venoco, Inc.		Opcode: V1150	Date: December 27, 2010
Name and location of well(s)			
<u>Sec 15, T. 8N, R. 32W S.B. B&M (11)</u> "Tognazzini" 10 (083-01163) "Tognazzini" 11 (083-01449) "Tognazzini" 12 (083-01450) "Tognazzini" 13 (083-01451) "Tognazzini" 315 (083-01400) "Tognazzini" 317-A (083-01410) "Tognazzini" 318-A (083-01411) "Tognazzini" 336 (083-01412) "Tognazzini" 337 (083-01413) "Tognazzini" 348-C (083-01414) "Tognazzini" 349 (083-01415) <u>Sec. 32, T. 9N, R. 31W S.B. B&M (1)</u> "Gato-Tognazzini" 1 (083-21482)			
Description of the land upon which the well(s) is (are) located Cat Canyon Field, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 11-01-2010	New Owner ERG Operating Company, LLC.	Operator code E0255	Type of Organization Corporation
	Address 600 Travis, Suite 7050 Houston, TX 77002		Telephone No. (713) 812-1800
Reported by ERG Operating Company, L.L.C.			
Confirmed by Venoco, Inc.			
New operator new status PA	Request Designation of Agent		
Old operator new status PA	Remarks Acquiring company has a blanket bond.		
Deputy Supervisor Patricia A. Abel		Signature 	

OPERATOR STATUS ABBREVIATIONS

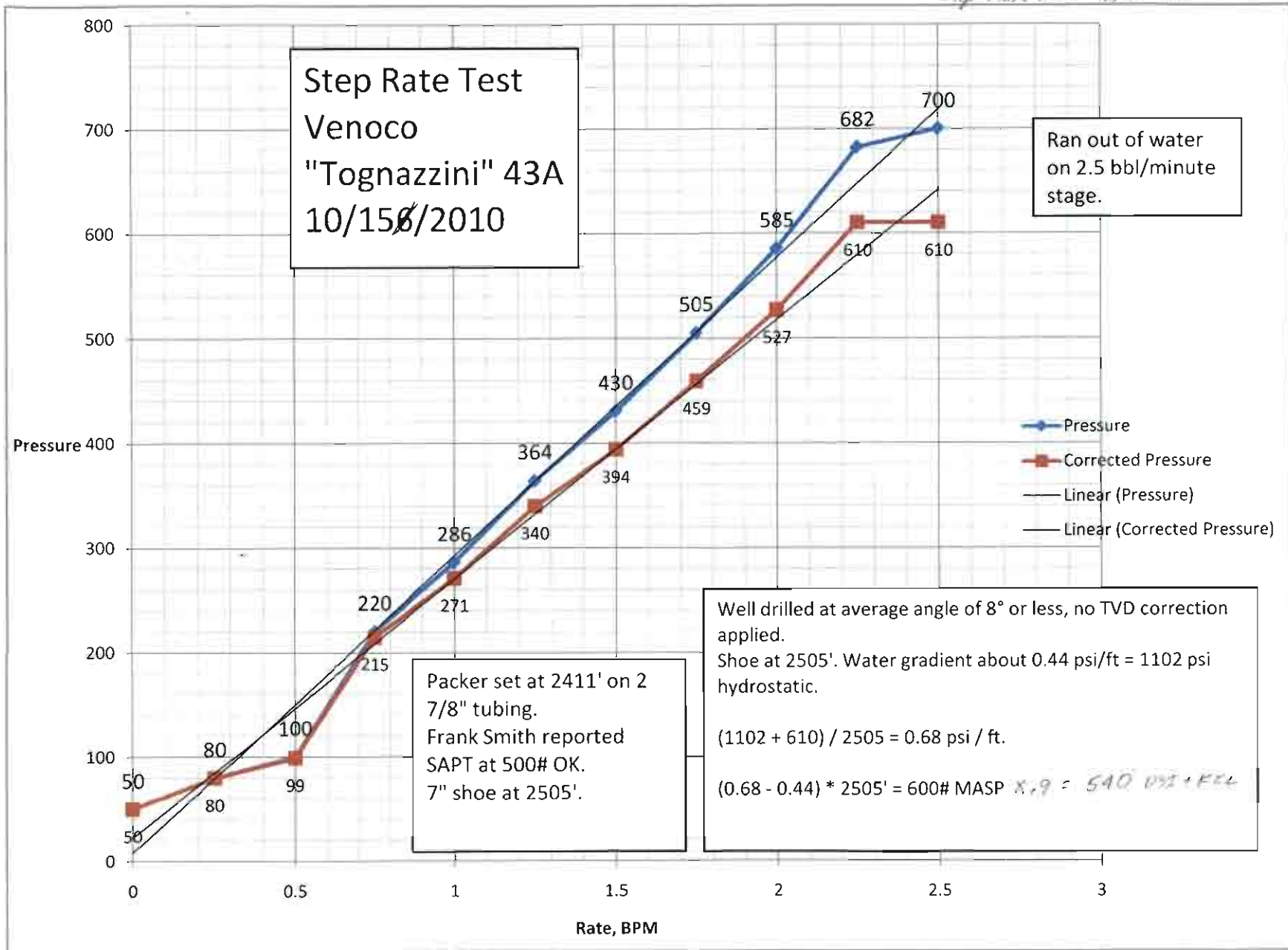
PA - Producing Active	FORM AND RECORD CHECK LIST					
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	CB	12-27-10	Map and Book		
NPI - No Potential Inactive	Well records	CB	12-27-10	Lease Files	CB	
Ab - Abandoned or No More Wells	New well cards			Well Stat	CB	12-28-10
PAA:cb	Bond Status			District Computer Files	CB	12-28-10
cc: ERG Operating Co. LLC	Annual Report	CB	12-27-10			
Venoco, Inc.						

Santa Barbara County
Cons. Committee - Transfer File - Harold Bertholf - Helen Jan

OGD156 (Modified 1/00)

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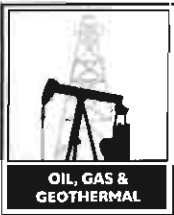
Step-Rate Test After Clean-out & acid job



on 11-15-10 - Per Frank Smith - Venoco
 Tbg. Press. was 200* & flowed water when
 opened to tank.

E-mailed Copy of Graph to
 Frank Smith 10/26/10

B1



DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

5075 S. Brodley Rd. • Suite 221 • SANTA MARIA, CALIFORNIA 93455

PHONE 805 / 937-7246 • FAX 805 / 937-0673 • WEBSITE conservation.ca.gov

May 13, 2009

Gary Lower, Agent
Venoco, Inc.
6267 Carpinteria Ave., Ste. 100
Carpinteria, CA 93013-1423

WATER DISPOSAL PROJECT
GATO RIDGE AREA
MONTEREY FM

Re: "Tognazzini" 43-A
Cat Canyon Field

Dear Mr. Lower:

The above referenced well has not injected for 6 months because of injection pressures above the maximum allowable surface injection pressure (MASP). It is also noted that after 6 months shut in, the tubing pressure is still reported above 400 psig. The injection zone pressure at this location appears to be over hydrostatic. Due to the high injection pressure and failure of the injection zone to bleed to 0 psig after 6 months shut in, the permit to inject at this location is terminated.

All injection lines to the well must be disconnected within 10 days of the date of this correspondence.

To reactivate the well, it will be necessary to submit a Notice of Intention to Rework Well (OG107). Our response will specify requirements to be fulfilled before injection can resume.

Sincerely,

Patricia A. Abel
Deputy Supervisor

JC:cb

cc: Chrono
Follow-up
Project File
UIC Binder
Well File

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**DEPARTMENT OF CONSERVATION****DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES**

801 K STREET • MS 20-20 • SACRAMENTO, CALIFORNIA 95814

PHONE 916 / 445-9686 • FAX 916 / 323-0424 • TDD 916 / 324-2555 • WEBSITE conservation.ca.gov

9-18-08

August 18, 2008

Notice of Violation 308-01

Gregory Schrage, Agent
Venoco, Inc.
6267 Carpinteria Ave., Ste. 100
Carpinteria, CA 93013-1423

Re: Injection Above Maximum Allowable Surface Pressure
Cat Canyon Field, Tognazzini 43A, Section 10, T.8N R.32W, S.B. B&M

Dear Mr. Schrage:

During a tracer survey run on April 9, 2008, the field engineer noted the well referenced above was injecting at 800 psig. In our Report on Operations T308-219, dated June 16, 2008, you were instructed to maintain the surface injection pressure below 625 psig, which is the calculated maximum allowable surface injection pressure (MASP) for this well. On August 13, 2008 a field engineer from our office inspected the well and noted the injection pressure was 1000 psig, again over MASP.

Failure to maintain injection pressures at or below the MASP, plus allowance for friction flow loss, is a violation of the California Laws for Conservation of Petroleum and Gas, and California Code of Regulations Section 1724.10 (i). Continued failure to maintain the injection pressure below the MASP may result in imposition of civil penalties.

Venoco must immediately reduce and maintain the injection pressure in well "Tognazzini" 43A at or below 625 psig, as well as ensure proper steps and pressure controls are installed on this well to limit the injection pressure to the maximum allowable. Notify this office when these steps have been taken. This Division does not authorize injection above MASP until a step-rate test is conducted on the well, and the Division witnesses the test and issues approval.

Please contact us should you have any questions or wish to discuss this matter further.

Sincerely,

Patricia A. Abel
Acting Deputy Supervisor

Terminate

PAA:pd

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**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY Gato Corp. WELL NO "Tognazzini" 43-A
 API NO. 083-01655 SEC. 10 T. 8N R. 32W S.B. B.&M.
 COUNTY Cat Canyon FIELD Santa Barbara

RECORDS RECEIVED

DATE

Well Summary (Form OG100) 09-25-07
 History (form OG103) 10-9-08 09-25-07
 Directional Survey _____
 Core Record and/or SWS _____
 Other: _____
 Electric logs: _____
 Temp. Survey 09-25-07

STATUS

No Change
 (Date)
Engineer's Check List
☒ Summary, History, & Core Record
☐ Directional Survey
☐ Logs
☒ Operator's Name
☒ Signature
☒ Well Designation
☐ Location _____
☐ GPS Location Received
☐ Entered in Computer
☒ Notice
☒ "T" Reports
☐ Casing Record
☐ Plugs
☐ Final Sfc. Insp Date _____
☐ Production/Injection
☐ E Well on Prod., enter EDP
☐ Computer

Clerical Check List

Form OGD121 _____
☐ Location change (OG165)
☐ Elevation change (GD165)
☐ Final Letter (OG159)
☐ Release of Bond (OGD150)
☐ Abd _____ in WSS
☐ Notice of Records Due (OGD170)
☒ Request: Completed well summary

Drlg Table-TD
 (F: Annual Rept/Yr/Prelim Drlg Stat)
☐ Redrill & Deepen Depths
 (F: Annual Rept/Yr/Prelim Drlg Stat)
☐ Idle Well Status Change
 (F: Idle/Idle Wells 2000/Idle Wells Master)
☐ WSS Code or Status Changes

to include info on well status
on the information - 8/08

Map Work: None
☒ Follow Up: Carma injection 11/08
☒ Hold for: Completed well summary

Scan Records _____

Records Approved 5/11/09 - JC

OGD2

thru 9/08 - 191 days
Inf - 246, 692 Bbls.
pressure/mass - 8/08
6 ms - SE
press - 404 PPA

7.2 ms all Hydrostatic

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OCT 09 2008

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
SANTA MARIA, CALIFORNIARESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

WELL SUMMARY REPORT

API NO. 04-083-01655

Operator VENOCO, INC. (Previously operated by Gato Corp)		Well Tognazzini 43-A				
Field Cat Canyon		County Santa Barbara	Sec. 10	T. 8N	R. 32W	B.&M. SB
Location (Give surface location from property or section corner, street center line) 2900' South and 500' East of NW Corner of Sec 10					Elevation of ground above sea level 1413'	
California Coordinates (if known): -120.241477, 34.784577						
Was the well directionally drilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, show coordinates at total depth. -120.241540, 34.786030						

Commenced drilling (date) 6/17/07	(1st hole) 3888'	Total depth (2nd)	(3rd)	Depth measurements taken from top of: <input checked="" type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input type="checkbox"/> Kelly Bushing	
Completed drilling (date) 7/2/07				Which is 8' feet above ground	
Commenced production/injection (date)	Present effective depth 3449'		GEOLOGICAL MARKERS		DEPTH
Production mode: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas lift	Junk 2-7/8" Tubing & 10-3/4" Packer at 1839' - 1876' sidetracked.				
Name of production/injection zone(s) Monterey Injection Well			Formation and age at total depth Monterey Miocene		Base of fresh water No Fresh Water

	Clean Oil (bbl per day)	API Gravity (clean oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production						
Production After 30 days						

CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New (N) or Used (U)	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementing (if through perforations)	Top(s) of Cement in Annulus
10-3/4"	Surface	1874'	40.5#	"C"	N	15-1/2"	250		Surface
8-5/8"	1865'	3699'	36#	"C"	N	9-7/8"	Ld		
7"	Surface	2505'	23#	K-55 LTC	N	9-7/8"	800 Cu Ft Class G		

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

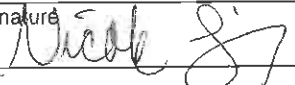
Liner 4-1/2" 10.5# K-55 Liner 2426' to 3449'

Slotted 2663' - 2821', 2940' - 3019', 3098' - 3216', 3291' - 3449'

8-5/8" Perforated 16R x 3/8" Holes 2965' - 3048', 3090' - 3170', 3253' - 3433' and 8R 2" x 40 mesh, 3433' - 3699'

Logs/surveys run? ☐ Yes ☒ No If yes, list type(s) and depth(s).

In compliance with Sec. 3215, Division 3, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name Greg Schrage		Title Vice President, Asset Development	
Address 6267 Carpinteria Ave; Suite 100		City/State Carpinteria, CA	Zip Code 93013
Telephone Number (805) 745-2100	Signature 	Date 10/7/08	

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

MAP LETTER	BOND NO.	114	121
			9-07

Operator GATO CORP Field CAT CANYON County SANTA BARBARA
Well TOGNARELLI 43-A Sec. 10 T. 8N R. 32W S. B. B. & M.
A.P.I. No. 08301655 Name EDWARD G. DAVIS Title CONSULTANT
Date SEP. 15, 2007 (Month, day, year)
Signature [Signature] (Person submitting report)
Address P.O. Box 921, Los Alamos, CA Telephone Number 805-245-8748

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date 16- JUNE 17, 2007 MOVE IN AND RIG UP. ATTEMPT TO FILL HOLE WITH WATER.
R/U AND FUNCTION TEST BOP'S. P/U 9 7/8" BIT. TIH TAG FILL @ 885'
DRILL OUT FILL W/ PARTIAL RETURNS 885' TO 1001'. LOST TOTAL RETURNS @ 1001'. PUMP 200 +/- Bbls DOWN HOLE. POH W/ 9 7/8" BIT.
RUN 9 7/8" TAPERED MILL, SHORT J.C., 9 7/8" STABILIZER. MILL 1001' TO 1057'. RECOVER FILL (?) - NO CNT IN CUTTINGS - AND PIECES OF METAL (CASING?) LOST COMPLETE RETURNS AT 1057'. SPOT 140 Bbls L.C. MILL ON BOTTOM. CIRC. OFF. BOTTOM AND ADD L.C.M.

JUNE 18 MILL 1057' TO 1082' IN 8 HRS. HIGH TORQUE LIMITED PENETRATION RATE. RECOVER 10-20% CNT IN CUTTINGS AND METAL PIECES. POH W/ MILL. RUN 7 7/8" BIT AND DRILL 1082' TO 1327' IN 11 HRS. NO CNT. IN CUTTINGS.

JUNE 19 DRILL 7 7/8" HOLE 1327' TO 1464'. DRILLING RATE SLOWED TO 1-2 FT/HR AT 1460' (TOP CEMENT ??) POH W/ 7 7/8" BIT AND RAN NEW 7 7/8" BIT. DRILL 1464' TO 1602' AT 15+ FT/HR

JUNE 20 DRILL 7 7/8" HOLE 1602' TO 1742'. RAN FREE 1742' TO 1751'. LOST CIRC. SPOT LCM PILL REGAINED CIRCULATION. POH W/ 7 7/8" BIT. TIH W/ 9 7/8" BIT. TAG FILL AT 1060'. REAM 7 7/8" HOLE TO 9 7/8" FROM 1060' TO 1600'

JUNE 21 REAM FROM 1600' TO 1699'. CONTINUOUS LOST CIRCULATION 1670' TO 1699'. PUMP SEVERAL L.C.M. PILLS. SPOT 120 Bbl LCM PILL AT 1699' POH W/ 9 7/8" BIT. RAN 9 7/8" TAPERED MILL. MILL TAGGED BAD CASING (?) AT 940' REAM 940' TO 1680'

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D N OF OIL, GAS, AND GEOTHERMAL RESOURCES
HISTORY OF OIL OR GAS WELL

(2)

Operator GATO CORP Field _____ County _____
Well TOGAZZINI 43-A Sec. _____ T. _____ R. _____ B.&M. _____
A.P.I. No. _____ Name _____ Title _____
Date SEP. 15, 2007 (Month, day, year) (Person submitting report) (President, Secretary, or Agent)
Signature _____
Address _____ Telephone Number _____

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date

JUNE 22 REAM 1680' TO 1752'. HIT HARD SPOT AT 1752'. COULD ROTATE WITH NO TORQUE.
POH W/ MILL. CASING PIPE IN MILL THROAT HAD 2 1/2" GROOVE INDICATING MILL WAS ROTATING ON 2 7/8" TUBING STUB.
MAKE UP AND TIE W/ OVERSHOT. TAG FALL AT 1740'. WASH TO 1752' ENGAGE FISH. PULL W/ 20,000 LBS OVER. FISH CAME FREE ??
POH W/ DRILL PIPE STANDING FULL. DID NOT RECOVER FISH.
NOTE: MARKINGS INDICATED THAT FISH WAS STUCK IN MILL CONTROL.

JUNE 23 TIE W/ OVERSHOT. POWER SWIVEL STOPPED WITH OVERSHOT ON BOTTOM POH. WAIT ON RENTAL POWER SWIVEL.

JUNE 24 TIE WITH JUNKMASTER DUAL MILL. WASH 1752' TO 1754'. MILL 1754' TO 1758'. COULD NOT GET BELOW 1758' (3 INCHES / HR) POH. HAD 3.5 FT OF FORMATION IN JUNKMASTER.
TIE WITH 9 7/8" BIT TO 1756'. DRILL 9 7/8" HOLE 1756' TO 1830'

JUNE 25 DRILL 9 7/8" HOLE 1830' TO 1944'. GENERATOR DOWN. POH.
TIE AND DRILL 1944' TO 2124'

JUNE 26 DRILL 2124' TO 2424'

JUNE 27 DRILL 9 7/8" HOLE TO 2540'. CONDITION HOLE. POH 4/D 6" D.C. AND 4" HWDP.

JUNE 28 RUN 54 JTS, 7" 23#, LT+C CASING TO 2505'. CEMENT W/ 800 FT 3 CLASS 'G', 15.6 PPG, 30% SILICA CNT. DISPLACE W/ 101 BWS 8.7 PPG MUD WITH 500 PSI AT 3 BPM. BUMP PLUG W/ 1000 PSI. CIRCULATE NEXT CNT TO SURFACE.

OG-103 (8/87/GSR/5M)
Printed on recycled paper.

SUBMIT IN DUPLICATE

RECEIVED

SEP 25 2007

DIV OIL GAS & GEOTHERMAL
SANTA MARIA, CALIFORNIA

15

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator SATU CORP. Field _____ County _____
Well TOGNAZZINI 43-A Sec. _____ T. _____ R. _____ B.&M. _____
A.P.I. No. _____ Name _____ Title _____
Date SEP 15, 2017 (Month, day, year) (Person submitting report) (President, Secretary or Agent)
Signature _____
Address _____ Telephone Number _____

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	
JUNE 29	R/U BOP'S. P/U 6" BIT W/ 4 3/4" D.C. AND HWDP. TIH AND TAG CEMENT. <u>TEST BOP'S AND 7" CASING TO 1000 PSI FOR 15 MIN.</u> WASH OUT CMT CONTAMINATED MUD 2437'-2507' DRILL STOP AT 2507' DRILL CEMENT IN RAT HOLE 2507'-2540' AND FORMATION 2540' TO 2708'
JUNE 30	<u>DRILL 6" HOLE 2708' TO 3068'</u>
JULY 1	" " " 3068' " 3399'
JULY 2	" " " 3399' " 3449'
	CONDITION HOLE. POH L/D 4 3/4" D.C. AND HWDP <u>RUN 4 1/2" 10.5# K-55 LINKER 2426' TO 3449'</u> <u>SLOTTED 2663'-2821', 2940'-3019', 3098'-3216', 3291'-3449'</u> <u>TEFLON SEAL AT 2426'</u>
JULY 3	POH L/D DRILL PIPE. RIG RELEASED AT 1400 HRS JULY 3
AUG. 14	M.I.R.V. PULLING UNIT. RAN 7" 23# AD-1 TENSION PACKER ON 77 JTS, 2 7/8" E.U.E., J-55, 6.5" NEW TUBING. <u>SET PACKER AT</u> <u>2411' W/ 11,000# TENSION. TEST ANNULUS TO 200 PSI.</u>

File in well record

Venoco Inc.
6267 Carpinteria Ave. Ste. 100
Carpinteria, CA 93013

September 9, 2008

Division of Oil, Gas & Geothermal Resources
5075 S. Bradley Road, Ste. 221
Santa Maria, CA 93455
Attn: Pat Abel
Ross Brunetti

RECEIVED
SEP 10 2008
DIVISION OF OIL GAS & GEOTHERMAL
SANTA MARIA, CALIFORNIA

Re: Injection Above Maximum Allowable Surface Pressure
Cat Canyon Field, Tognazzini 43A, Section 10, T.8N R.32W, S.B. B&M


Dear Madam:

This letter is in response to the Notice of Violation our office received August 18, 2008. As we discussed over the phone, we are aware of the surface injection pressures being over the maximum allowable surface injection pressure (MASP) for the Tognazzini 43A, and have performed practice step rate tests to eventually increase the MASP. We did not notify your office of these practice tests because we were trying to work out any difficulties we might encounter in using non conventional rate controlling equipment during the test before we had your office come out to witness the test.

During the time we were running the tests we decided the pressure build up we have seen over the past 6 month may be due to plugging of the perforations and near wellbore damage. Therefore, we notified your office via telephone on September 2 that we would be performing an acid job on the well, and pending the results we would decide whether a step rate test was necessary. The acid job is tentatively scheduled for this Friday September 12, after which we will notify your office of our future plans for this well.

This letter is to confirm several telephone conversations about the violation noted above. Thank you for your understanding and cooperation in this matter. Please contact us if you have any questions about this matter.

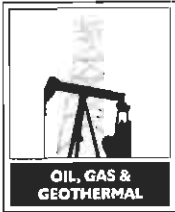
Sincerely,



Gary Lower

805-745-2284

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**DEPARTMENT OF CONSERVATION****DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES**

801 K STREET • MS 20-20 • SACRAMENTO, CALIFORNIA 95814

PHONE 916 / 445-9686 • FAX 916 / 323-0424 • TDD 916 / 324-2555 • WEBSITE conservation.ca.gov

August 18, 2008

Notice of Violation 308-01

Gregory Schrage, Agent
Venoco, Inc.
6267 Carpinteria Ave., Ste. 100
Carpinteria, CA 93013-1423

Re: Injection Above Maximum Allowable Surface Pressure
Cat Canyon Field, Tognazzini 43A, Section 10, T.8N R.32W, S.B. B&M

Dear Mr. Schrage:

During a tracer survey run on April 9, 2008, the field engineer noted the well referenced above was injecting at 800 psig. In our Report on Operations T308-219, dated June 16, 2008, you were instructed to maintain the surface injection pressure below 625 psig, which is the calculated maximum allowable surface injection pressure (MASP) for this well. On August 13, 2008 a field engineer from our office inspected the well and noted the injection pressure was 1000 psig, again over MASP.

Failure to maintain injection pressures at or below the MASP, plus allowance for friction flow loss, is a violation of the California Laws for Conservation of Petroleum and Gas, and California Code of Regulations Section 1724.10 (i). Continued failure to maintain the injection pressure below the MASP may result in imposition of civil penalties.

Venoco must immediately reduce and maintain the injection pressure in well "Tognazzini" 43A at or below 625 psig, as well as ensure proper steps and pressure controls are installed on this well to limit the injection pressure to the maximum allowable. Notify this office when these steps have been taken. This Division does not authorize injection above MASP until a step-rate test is conducted on the well, and the Division witnesses the test and issues approval.

Please contact us should you have any questions or wish to discuss this matter further.

Sincerely,

Patricia A. Abel
Acting Deputy Supervisor

PAA:pd

12

Fup
Field Eng. inspect

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
(805) 937-7246

Ar pec. 7-16-08

No. T 308-219

REPORT ON OPERATIONS

Gregory Schrage, Agent
Venoco, Inc.
6267 Carpinteria Ave., Ste. 100
Carpinteria, CA 93013-1423

Santa Maria, California
June 16, 2008

Your operations at well "Tognazzini" 43-A A.P.I. No. 083-01655, Sec. 10, T. 8N, R. 32W, S.B. B.&M. Cat Canyon Field, in Santa Barbara County were witnessed on 4-9-08. C. Kelly, representative of the supervisor, was present from 1130 to 1300. Also present were K. Moody, Company Representative and C. Fitzpatrick, Logging Technician.

Casing record of well: 10 3/4" cem. 1874', drilled thru @ 1756'; 7" cem. 2505'; 4 1/2" Id. 2426'-3449', perf @ intervals 2663'-3449'. T.D. 3449' (present hole).

The operations were performed for the purpose of demonstrating that all of the injection fluid is confined to the intended zone.

DECISION: THE MIT IS APPROVED SINCE IT INDICATES THAT ALL OF THE INJECTION FLUID IS CONFINED TO THE FORMATIONS BELOW 2965' AT THIS TIME.

Deficiency - Corrected:

1. At time of survey the injection pressure was 800 psi. At time of inspection on April 15, 2008, the injection pressure was 580 psi. Please ensure that injection pressures remain at or below the approved maximum allowable injection pressure of 625 psig.

CK:pd

Put a
30 day follow
up for field
eng. inspect
Thank

CK.
Inj. Pressure - 1000 psig
8/13/08
Gauge on Pump on loc.
@ 1430
SE & ? Did stop Route Test?
per Pumpu-?

HAL BOPP, State Oil and Gas Supervisor

By



Acting Deputy Supervisor

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
(805) 937-7246

No.T 308-219

REPORT ON OPERATIONS

Gregory Schrage, Agent
Venoco, Inc.
6267 Carpinteria Ave., Ste. 100
Carpinteria, CA 93013-1423

Santa Maria, California
June 16, 2008

Your operations at well "Tognazzini" 43-A A.P.I. No. 083-01655, Sec. 10, T. 8N, R. 32W, S.B. B.&M. Cat Canyon Field, in Santa Barbara County were witnessed on 4-9-08. C. Kelly, representative of the supervisor, was present from 1130 to 1300. Also present were K. Moody, Company Representative and C. Fitzpatrick, Logging Technician.

Casing record of well: 10 3/4" cem. 1874', drilled thru @ 1756'; 7" cem. 2505'; 4 1/2" Id. 2426'-3449', perf @ intervals 2663'-3449'. T.D. 3449' (present hole).

The operations were performed for the purpose of demonstrating that all of the injection fluid is confined to the intended zone.

DECISION: THE MIT IS APPROVED SINCE IT INDICATES THAT ALL OF THE INJECTION FLUID IS CONFINED TO THE FORMATIONS BELOW 2965' AT THIS TIME.

Deficiency - Corrected:

1. At time of survey the injection pressure was 800 psi. At time of inspection on April 15, 2008, the injection pressure was 580 psi. Please ensure that injection pressures remain at or below the approved maximum allowable injection pressure of 625 psig.

CK:pd

HAL BOPP, State Oil and Gas Supervisor

By



Acting Deputy Supervisor

MECHANICAL INTEGRITY TEST (MIT)

Operator: <u>Venoco, Inc.</u>					Well: <u>"Tognazzini" 13A</u>	
Sec. <u>10</u>	T. <u>8N</u>	R. <u>32W</u>	B.&M. <u>S.B.</u>	API No.: <u>083-01655</u>	Field: <u>Cat Canyon</u>	
County: <u>Santa Barbara</u>					Witnessed/Reviewed on: <u>4/9/08</u>	

C. Kelly, representative of the supervisor, was present from 1130 to 1300.
Also present were: K. Moody, Co Representative; C. Fitzpatrick, Logging Technician

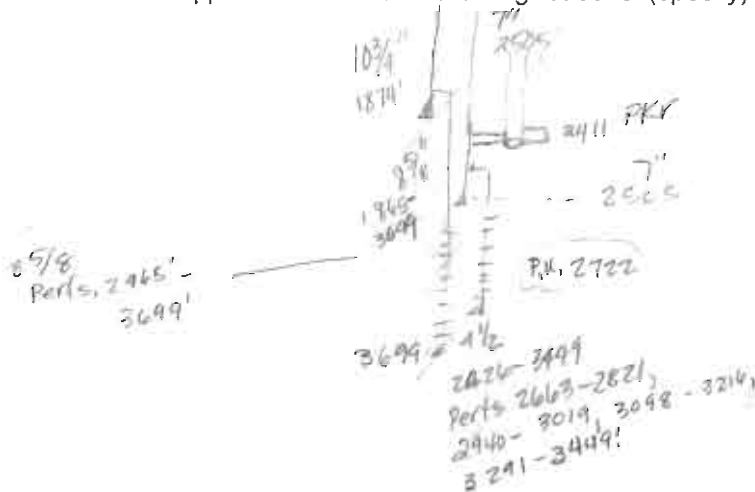
Casing record of the well: 10 3/4" cem. 1874'; drilled thru @ 1756'; 7" cem. 2505'; 4 1/2" Id. 2426'-3449'; perf @ intervals 2663'-3449'. T.D. 3449' (present hole).

Deficiency - Corrected: At time of survey the injection pressure was 800 psi. At time of inspection on April 15, 2008 the injection pressure was 580 psi. Please ensure that injection pressures remain at or below the approved maximum allowable injection pressure of 625 psig.

The MIT was performed for the purpose of (6).

☒ The MIT is approved since it indicates that all of the injection fluid is confined to the formations below 2965 feet at this time.

☐ The MIT is not approved due to the following reasons: (specify)



Well: "Tognazzini"	Date: 4/9/08	...me: 1130
Observed rate: 1494 B/D	Meter rate: 1638 B/D	Fluid level: feet
Injection pressure: 800 psi	MASP: 600	Pick-up depth: 2722 feet

Initial annulus pressure: psi	Pressure after bleed-off: psi
-------------------------------	-------------------------------

Casing vented during test (Y/N)	Survey company: Welaco
---------------------------------	------------------------

SPINNER COUNTS			COMMENTS:
DEPTH	COUNTS	RATE	

TRACER CASING AND TUBING RATE CHECKS			
Interval	Time (sec.)	Rate (B/D)	Background log: 2250 to 2720
2710 - 2720	13	908	COMMENTS: 2500 - 2550 65 1065 300 - 400 30 1455
2450 - 2500	13	1100	
2700 - 2710	10	1122	
2490 - 2700	10	1233	
2680 - 2690	10	1113	
2550 - 2600	18	1094	

2250 - 2350	30	1494	TOP PERFORATION CHECK
-------------	----	------	-----------------------

Top perforation depth: 2663'	Wait at: 2600	for 60 seconds	Beads: (Y/N)
------------------------------	---------------	----------------	--------------

Casing shoe at: 7' 2505'	WSO holes at:	Arrival time: Calculated	Actual
--------------------------	---------------	--------------------------	--------

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
2600 - 2720	2718	gone				
2720 - 2500						

PACKER CHECK			
--------------	--	--	--

Packer at: 2411, 2426	Wait at: 2350	for 60 seconds	Beads: (Y/N)
-----------------------	---------------	----------------	--------------

Tubing tail at: 2411'	Tubing size: 2 7/8	2nd Packer at:	Mandrel:
-----------------------	--------------------	----------------	----------

LOG FROM	TO	SLUG @	LOG FROM	TO	SLUG @	COMMENTS:
1. 2350 - 2600	2507	gone				
2. 2600 - 2350	2570					
3. 2350 - 2700	2700 - 2200		gone			

COMMENTS: OCL / temp 500-2722	Note: * 2580 high reading 2600 - 2670 "
Per C. Fitzpatrick - SPT 251 psi - 15 mins,	

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
REPORT OF PROPERTY AND WELL TRANSFER

Field or county Cat Canyon Field		District. 3 - SANTA MARIA	
Former owner Gato Corporation		Opcode:	Date January 14, 2008
Name and location of well(s)			
<u>Sec. 4, T. 8N, R. 32W S.B. B&M</u>		<u>Sec. 9, T. 8N, R. 32W S.B. B&M</u>	
Tognazzini 3 (083-01443)		Tognazzini 20 (083-01401)	
Tognazzini 4 (083-00344)		Tognazzini 23 (083-01403)	
Tognazzini 17 (083-01455)		Tognazzini 31 (083-01404)	
Tognazzini 20 (083-20008)		Tognazzini 42 (803-01406)	
		Tognazzini 51 (083-01407)	
<u>Sec. 9, T. 8N, R. 32W S.B. B&M</u>		Tognazzini 1-A (083-01398)	
Tognazzini 1 (083-01440)		Tognazzini 1-W (083-01441)	
Tognazzini 2 (083-01161)		Tognazzini 21-A (083-01402)	
Tognazzini 3 (083-01399)		Tognazzini 2-B (083-01442)	
Tognazzini 6 (083-01445)		Tognazzini 3-A (083-01162)	
Tognazzini 7 (083-01446)			
Tognazzini 8 (083-01447)		<u>Sec. 10, T. 8N, R. 32W S.B. B&M</u>	
Tognazzini 9 (083-01448)		Tognazzini 5 (083-01444)	
Tognazzini 14 (083-01452)		Tognazzini 52 (083-01408)	
Tognazzini 15 (083-01453)		Tognazzini 112 (083-01409)	
Tognazzini 16 (083-01454)		Tognazzini 32-B (083-01405)	
Tognazzini 18 (083-01456)		Tognazzini 43-A (083-01655)	
<u>Sec. 15, T. 8N, 32W S.B. B&M</u>			
Tognazzini 10 (083-01163)			
Tognazzini 11 (083-01449)			
Tognazzini 12 (083-01450)			
Tognazzini 13 (083-01451)			
Tognazzini 315 (083-01400)			
Tognazzini 336 (083-01412)			
Tognazzini 337 (083-01413)			
Tognazzini 349 (083-01415)			
Tognazzini 317-A (083-10410) 01410			
Tognazzini 318-A (083-01411)			
Tognazzini 348-C (083-01414)			
<u>Sec. 32, T. 9N, R. 31W S.B. B&M</u>			
Gato-Tognazzini 1 (083-21482)			
(Santa Barbara County)			
Description of the land upon which the well(s) is (are) located			
Cat Canyon Field, Tognazzini Lease, Santa Barbara County, CA			
Date of transfer, sale, assignment, conveyance, or exchange 12-7-07	New Owner Venoco, Inc.	Operator code V1150	Type of Organization Corporation
	Address 6267 Carpinteria Avenue, Suite 100 Carpinteria, CA 93013		Telephone No. (805) 745-2100
Reported by Venoco, Inc.			
Confirmed by Gato Corporation			
New operator new status (status abbreviation) PA	Request Designation of Agent		
Old operator new status (status abbreviation) Ab	Remarks Includes 15 idle wells.		

Deputy Supervisor
William E. Brannon

Signature
William E. Brannon

OPERATOR STATUS ABBREVIATIONS

PA - Producing Active		FORM AND RECORD CHECK LIST				
NPA - No Potential Active	Form or record	Initials	Date	Form or record	Initials	Date
PI - Potential Inactive	Form OGD121	pd	1-16-08	Map and Book	310	JC 3/15/08
NPI - No Potential Inactive	Well records	pd	1-16-08	Lease Files		
Ab - Abandoned or No More Wells	New well cards			Well Stat	pd	1-28
	Bond Status	pd/pa	1-16-08	District Computer Files		
cc:						
	Gato Corporation.					

Santa Barbara County
Conservation Committee
Harold Bertholf

Transfer File
HQ

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 307-163
Field Code 128
Area Code 09
New Pool Code 10
Old Pool Code 10

PERMIT TO CONDUCT WELL OPERATIONS

WATER DISPOSAL
GATA RIDGE AREA
MONTEREY FM.

Donn V. Tognazzini, Agent
Gato Corp.
P. O. Box 599
Los Olivos, CA 93441

Santa Maria, California
May 15, 2007

Your proposal to redrill & reactivate injection in well "Tognazzini" 43-A, A.P.I. No. 083-01655, Section 10, T. 8N, R. 32W, S.B. B&M, Cat Canyon field, Gato Ridge area, Monterey pool, Santa Barbara County, dated 3-14-07, received 3-14-07, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Drilling fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II A 2M requirements is installed and maintained in operating condition at all times.
3. This well conforms to the provisions set forth in our letter of May 15, 2007, approving continued use of the project.
4. Copies of all surveys are filed with this Division.
5. Injection is through tubing on packer set immediately above the zone of injection.
6. A step-rate pressure test is conducted prior to sustained injection above the maximum allowable surface pressure plus friction flow losses.
7. Perforations are made in the 10 3/4" casing at 450' and squeezed with at least 60 cf.
8. Prior to commencing injection and quarterly thereafter, fluid level shots are performed on both the tubing and casing of well "Tognazzini" 23, and submitted to this office.
9. THIS DIVISION IS NOTIFIED:
 - a. Before deviating from the proposed casing program and/or placing any plugs in the well. Additional requirements will be outlined at that time.
 - b. To witness a pressure test of the 7" casing.
 - c. To witness all injection profile surveys referred to in item 8 of the above-referenced letter, the first within three months after injection has recommenced and every year thereafter.
 - d. To witness a step-rate pressure test if run.
 - e. To witness the quarterly fluid level tests in well "Tognazzini" 23.

CONTINUED ON NEXT PAGE

Not Done
WLF

NOTES:

1. In the event there are any blowouts, fires, serious accidents or any significant gas or water leaks, promptly notify this Division.
2. This Division does not recommend the use of unlined sumps for the purpose of drilling, recompletion, or abandonment operations.
3. Information on file in this office indicates that there is no freshwater at this well location.
4. The Division completed an AOR. 9 wells were reviewed

Blanket Bond
PA:pd

cc: Project file

Engineer Pat Abel
Phone (805) 937-7246

HAL BOPP, State Oil and Gas Supervisor

By

William E. Brannon
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

NOTICE OF INTENTION TO REWORK / REDRILL WELL

C.E.Q.A. INFORMATION (when redrilling or deepening only)			
Exempt <input type="checkbox"/>	Neg. Dec. <input type="checkbox"/>	E.I.R. <input type="checkbox"/>	Document not required by local jurisdiction <input type="checkbox"/>
Class _____	S.C.H. No. _____	S.C.H. No. _____	
See Reverse Side			

FOR DIVISION USE ONLY			
Bond	Forms		EDP Well
	OGD114	OGD121	File
	3-07 pd	3-07	

This notice and an indemnity or cash bond must be filed, and approval given, before the rework/redrill begins. (See the reverse side for bonding information.) If operations have not commenced within one year of receipt of the notice, this notice will be considered canceled.

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework/redrill well Tognazzini 43A (Circle one) (Well designation) API No. 08301655

Sec. 10 T. 8N R. 32W SBB.&M. CAT CANYON Field
Santa Barbara County.

RECEIVED

MAR 14 2007

DIV OIL GAS & GEOTHERMAL
SANTA MARIA, CALIF.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:
10 3/4" Casing--40.5# @ 1874'. Cemented w/250 sx
8 5/8" Liner--1865' to 3699'. Slotted 2965' to 3699'

2. The total depth is: 3699' feet. The effective depth is: PB with cement to 903' feet.

3. Present completion zone (s): None (Name) Anticipated completion zone (s): Monterey (Name)

4. Present zone pressure: NA psi. Anticipated/existing new zone pressure: 350 psi.

5. Last produced: March 1940 7 28 --
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

(or)

Last injected: Aug. 1981 1920 340
(Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure, psig)

6. Is this a critical well according to the definition on the reverse side of this form? Yes ☐ No ☒

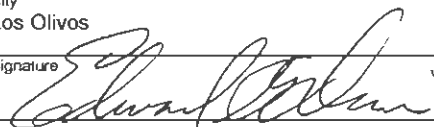
The proposed work is as follows: (A complete program is preferred and may be attached.)

SIDETRACK WELL FROM 1650' TO 2500' w/9 7/8" hole.
RUN AND CEMENT 7" CASING TO SURFACE.
DRILL 6" HOLE TO 3450' +/-
RUN 5 1/2" SLOTTED LINER 2450' TO TD
RUN 2 7/8" TUBING AND PACKER TO 2400'
INSTALL WELLHEAD AND INSTALL INJECTION LINE TO WELL.

NOTE: DETAILED DRILLING PROGRAM ATTACHED

For redrilling or deepening: 910' NORTH OF SURFACE LOCATION 3270'
(Proposed bottom-hole coordinates) (Estimated true vertical depth)

The division must be notified if changes to this plan become necessary.

Name of Operator GATO CORP	Telephone Number 805-680-3951 or 805-705-1444	
Address c/o D. Tognazzini, P.O. Box 599	City Los Olivos	Zip Code 93441
Name of Person Filing Notice Ed Davis	Signature 	Date 3/14/2007

File In Duplicate

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RECEIVED

MAR 14 2007

DIV OIL GAS & GEOTHERMAL
SANTA MARIA, CALIFORNIA

**DRILLING PROGRAM
TOGNAZZINI #43-A**

SIDETRACK EXISTING WELL

WELL CONDITION: (see attached sketch)

10 3/4" 40.5# casing @ 1874' cmt w/250 sx cmt
(cmt top est. @ 1400'--15" hole)
Parted casing @ 1698' (earthquake ???)
Bad casing 903'-912', 1663'-1698'
Cement plug 903' to 1737'

SITE PREPARATION:

- 1) Check wellhead for size & pressure rating & compatibility with rig BOP's.
- 2) Clean out cellar, check valves on wellhead. Install bull plugs.
- 3) Move in two 500 bbl tanks, connect injection line and fill tanks with lease produced water.

DRILLING PROCEDURE:

- 1) Move in and rig up drilling rig. Install Class II hydraulic-operated BOP'S. Function test BOP'S.
- 2) TIH w/9 7/8" bit, 6--6" drill collars to 900'. Circulate hole clean w/mud. Tag top of cement (903'). Drill cement to 1650'. Drop totco. POH.
- 3) TIH w/9 7/8" tapered mill, 10'--6" SDC, 9 7/8" stab., 6--6" DC. Mill window in 10 3/4" casing and drill 15'+ of hole in formation. Drop totco. POH.
- 4) TIH w/9 7/8" bit, 10'--6" SDC, 9 7/8" stab., 3--6" DC, 9 7/8" stab., 3--6" DC. Drill to 1900' or until 25 degrees inclination is attained. Run totco on wireline/sandline every 100'.
- 5) TIH w/9 7/8" bit, NB stab., 1 DC, 9 7/8" stab., 2 DC, 9 7/8" stab., 3 DC. Drill to 2500 ft or until lost circulation is encountered. At lost circulation depth--spot 100 bbl hi-visc, lost circ. pill on bottom and POH to run casing.

NOTE: ESTIMATED TOP OF MONTEREY--2000' MD
500' in MONTEREY--2500' MD
ESTIMATED TOP OF INJ. ZONE----2600' MD
" BASE " " ----3450' MD

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- 6) Run 7" casing (23#--29#), K55, LT&C to TD (Est 2500' MD)
Cement casing to surface with 700 sx cement. WOC.
If no cement to surface, run 1" line to 50' and cement
annulus w/200 sx cement.
- 7) Install 6" 3M flange on 7" casing.
- 8) TIH w/6" bit, 6--4 3/4" drill collars and tag float collar. Displace
hole with formation water. Drill float collar and shoe and
drill ahead with formation water. Run totco on wireline or
sandline every 200' and POH and run bit on packed BHA
or pendulum BHA if required for deviation control.
- 9) Drill to 3450' MD or 3265' TVD. Drill with lease produced water
and hi-visc sweeps.
- 10) Spot 100 Bbls hi-visc mud on bottom & POH.
- 11) Run 5 1/2", 15.5#, LT&C slotted liner from TD to 2450'+/-.
- 12) Run 2 7/8" tubing to TD and circ out mud w/lease water.
- 13) POH w/tubing and run 2 7/8" tubing w/tension packer to
2400' +/- . Set packer and install wellhead.
- 14) Inject lease water w/rig pumps @ 1-5 bpm with pressure
not to exceed 1200 psi. Record rates & pressures.
- 15) RDMO rig

Top S. (oil)

at 585'

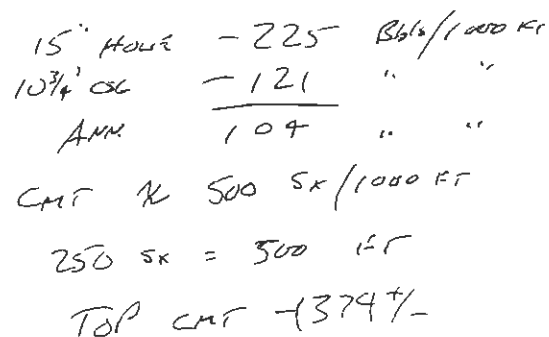
cp (perf) 10 3/4"

@ 450', 592

60 SPCF while cementing
7"

RECEIVED

DIV OIL GAS & GEOT
SANTA MARIA, CALIF


$$\approx 400$$

VERTICAL SECTION

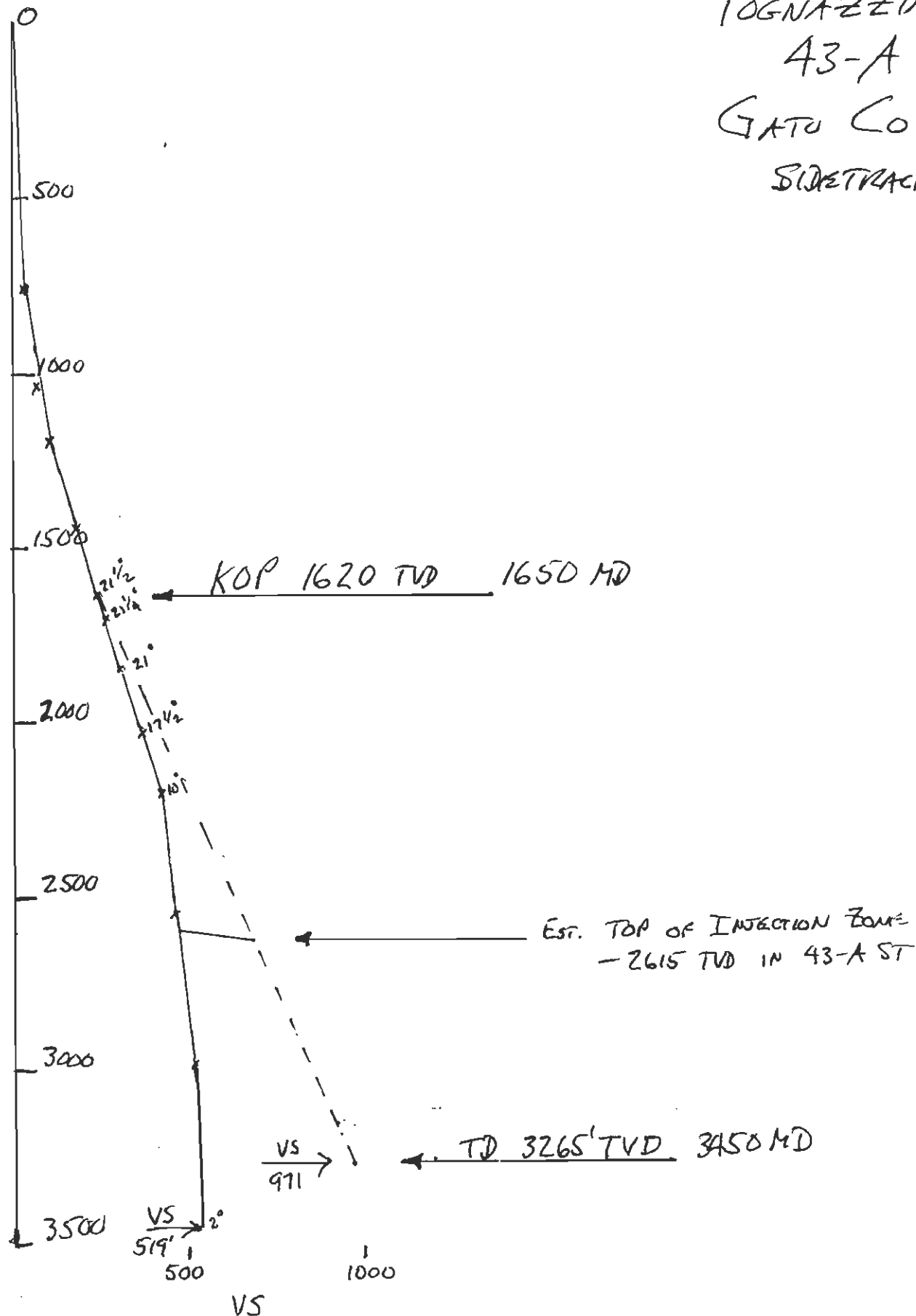
N (0° AZIMUTH)

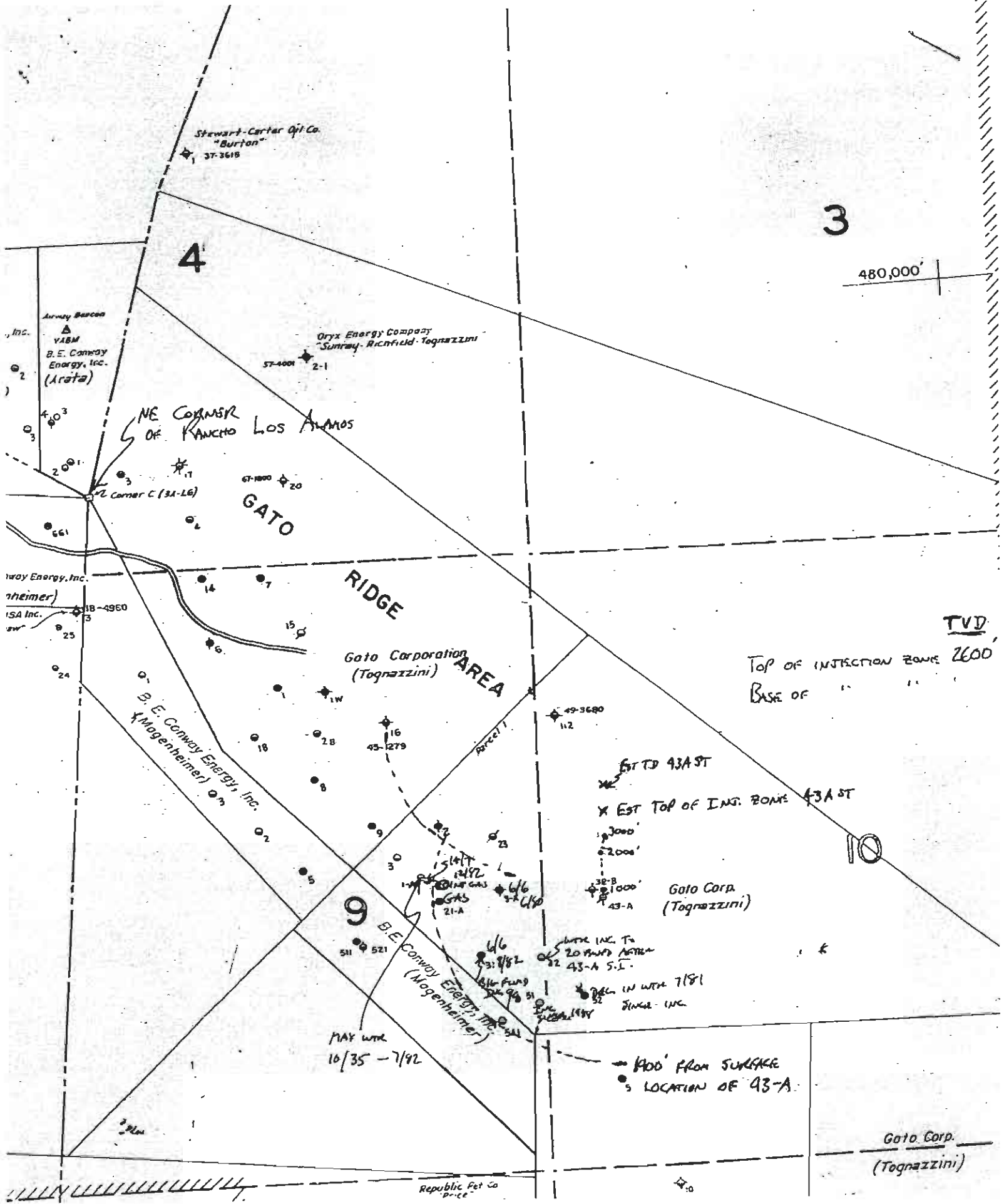
TOGNAZZINI

43-A

GATU CORP

SIDETRACK





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Revised Program

DRILLING PROGRAM TOGNAZZINI #43-A

5-7-07

SIDETRACK EXISTING WELL

WELL CONDITION: (see attached sketch)

10 3/4" 40.5# casing @ 1874' cmt w/250 sx cmt
(cmt top est. @ 1400'--15" hole)
Parted casing @ 1698' (earthquake ???)
Bad casing 903'-912', 1663'-1698'
Cement plug 903' to 1737'

SITE PREPARATION:

- 1) Check wellhead for size & pressure rating & compatibility with rig BOP's.
- 2) Clean out cellar, check valves on wellhead. Install bull plugs.
- 3) Move in two 500 bbl tanks, connect injection line and fill tanks with lease produced water.

DRILLING PROCEDURE:

- 1) Move in and rig up drilling rig. Install Class II hydraulic-operated BOP'S. Function test BOP'S.
- 2) TIH w/9 7/8" bit, and slick BHA to 900'. Circulate hole clean w/mud. Tag top of cement (903'). Drill cement to 1700' or until bit cannot drill further due to junk or parted casing. Drop totco. POH.
- 3) TIH w/9 7/8" tapered mill with 9 7/8' string mill @ 60'. Clean out hole with mills to 1843' (top of Model A, 10 3/4" x 2 1/2" pkr). Drop totco. POH.
- 4A) If the hole is side tracked with the tapered mill, drill at least 20' of formation with tapered mill and 75' if possible. Drop totco. POH.
- 5A) TIH w/9 7/8" bit, 10'--6" SDC, 9 7/8" stab., 3--6" DC, 9 7/8" stab., 3--6" DC. Drill to 1900' or until 25 degrees inclination is attained. Run totco on wireline/sandline every 100'.

6A) TIH w/9 7/8 bit, NB stab., 1 DC, 9 7/8" stab., 2 DC, 9 7/8" stab., 3 DC. Drill to 2500 ft or until lost circulation is encountered. At lost circulation depth--spot 100 bbl hi-visc, lost circ. pill on bottom and POH to run casing.

NOTE: ESTIMATED TOP OF MONTEREY--2000' MD

500' in MONTEREY--2500' MD

ESTIMATED TOP OF INJ. ZONE---2600' MD

" BASE " " ----3450' MD

7A) Run 7" casing (23#--29#), K55, LT&C to TD (Est 2500' MD)

Cement casing to surface with 700 sx cement. WOC.

If no cement to surface, run 1" line to 50' and cement annulus w/200 sx cement.

8A) Install 6" 3M flange on 7" casing.

9A) TIH w/6" bit, 6--4 3/4" drill collars and tag float collar. Displace hole with formation water. Drill float collar and shoe and drill ahead with formation water. Run totco on wireline or sandline every 200' and POH and run bit on packed BHA or pendulum BHA if required for deviation control.

10A) Drill to 3450' MD or 3265' TVD. Drill with lease produced water and hi-visc sweeps.

11A) Spot 100 Bbls hi-visc mud on bottom & POH.

12A) Run 4 1/2", 10.5#, LT&C slotted liner from TD to 2450'+/-.

13A) Run 2 7/8" tubing to TD and circ out mud w/lease water.

14A) POH w/tubing and run 2 7/8" tubing w/tension packer to 2400' +/- . Set packer and install wellhead.

15A) Inject lease water w/rig pumps @ 1-5 bpm with pressure not to exceed 1200 psi. Record rates & pressures.

16A) RDMO rig

IF IT IS POSSIBLE TO CLEAN OUT 10 3/4" CASING TO 1843'

4B) Run 8 1/2" skirted mill w/3' extension and clean out to top of pkr. Mill one ft of pkr and/or push to top of liner @ 1865'.

5B) Run 2 7/8" overshot w/9" guide and 9 7/8" string mill on top of overshot. Engage 2 7/8" tbg stub and POH w/pkr.

6B) If 5B) is not successful, run 8 1/2" junk mill, spud on tbg stub, mill through 10 3/4" pkr and push fish to 3200' +/- . (Should push fish below 3075' (base of injection zone).

7B) Run 7" casing to top of liner and cement to surface with Swab cup cementing tool.

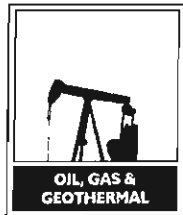
8B) Drill out cement and test cement ports to 1000 psi.

9B) Drill out shoe and circulate bottoms up.

- 10B) Run 2 7/8" packer and set below cement ports. Install wellhead.
11B) If 6B) is not successful, run 10 3/4" section mill and cut window
In 10 3/4" from 20' above top of 10 3/4" packer to packer.
Sidetrack well starting at step 5A).

DRILLING NOTES:

1. Need 6" or 8" D.C. and or HWDP for 20,000 lbs air weight for 9 7/8" bits and mills.
2. Need 100M and/or 80M shaker screens.



DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

5075 S. Bradley Rd. • Suite 221 • SANTA MARIA, CALIFORNIA 93455

PHONE 805 / 937-7246 • FAX 805 / 937-0673 • WEBSITE conservation.ca.gov

May 15, 2007

Donn V. Tognazzini, Agent
Gato Corp.
P O Box 599
Los Olivos, CA 93441

Water Disposal
Cat Canyon
Gato Ridge Area
Monterey Formation

Dear Mr. Tognazzini:

Since the project was originally approved in April 1947, this Division has made additional requirements as part of the surveillance program. Continued operation of this project is contingent upon the following general requirements established for new projects:

1. Forms OG105 or OG107 are used whenever a new well is to be drilled for use as an injection well, or whenever an existing well is to be converted to an injection well, even if no well work is required. The forms are submitted to the Division for approval. Specific requirements will be outlined in our answer to your notice.
2. This office is notified of any anticipated changes in the project that will alter any of the conditions originally approved, such as: expansion of the project area; a change of injection interval; a change of injection fluid constituents; a significant increase in volume; or an increase in injection pressure. No such changes shall be carried out without prior Division approval.
3. A monthly injection report is filed with the Division on Form OG110B, or by electronic or magnetic media approved by the Division, on or before the last day of each month, for the preceding month, showing the amount of fluid injected, the surface pressure required, and the source of injection water for each injection well.
4. A chemical analysis of the fluid to be injected is made and filed with this Division whenever the source of injection fluid is changed, or as requested by the office. **ALL FLUIDS MUST CONFORM TO THE DEFINITION OF A CLASS II FLUID AS DEFINED BY THE EPA.**
5. A chemical analysis of the fluid in the injection zone is made and filed with this Division. All fluid sampling and analysis required by the Division must be done in accordance with the provisions of the Division's Quality Assurance Program. Please refer to the Division's "Notice to Oil and Gas Operators", dated November 17, 1986 (copy attached).

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6. An accurate operating pressure gauge or pressure-recording device is available at all times, and all injection wells are equipped for installation and operation of such a gauge or device. Any gauge or device permanently affixed to the well, or any part of the injection system, must be calibrated at least every six months. Portable gauges must be calibrated at least every two months. Evidence of such calibration must be made available to the Division upon request.
7. All injection wells are completed with tubing and packer set immediately above the approved zone of injection, unless a variance to this requirement has been granted by the Division.
8. Mechanical integrity tests (MIT) for all injection wells are run and the results are filed with the Division within three (3) months of commencing injection, once every year thereafter, after any significant anomalous rate or pressure change, or as requested by the Division to confirm that the injection fluid is confined to the permitted zone or zones. This monitoring schedule may be modified by the district deputy. The Division must be notified of any scheduled MIT's, as the tests may be witnessed by a Division representative.
9. Injection-zone pressure, as determined by annual pressure fall-off tests, does not exceed hydrostatic pressure in the general area affected by the project. The District Deputy may modify the requirement for a pressure fall-off, if supported by evidence documenting good cause.
10. Data are maintained to establish that no damage to life, health, property, or natural resources is occurring by reason of the project. Injection shall be stopped if there is evidence of such damage, or loss of hydrocarbons, or upon written notice from the Division. Project data must be available for periodic inspection by Division representatives.
11. The maximum allowable injection-pressure gradient is limited to (.7) psi per foot of true vertical depth, plus friction flow losses, as measured at the top perforation in cemented casing, or at the cemented casing shoe in landed-liner completions. Step-rate tests must be preformed prior to any sustained injection above this gradient. The test must begin at the hydrostatic gradient of the injection fluid and continue until either the intended maximum injection pressure is reached or until the formation fractures, whichever occurs first. The results of these tests must be submitted to this Division for approval.
12. All injection piping, valves, and facilities meet or exceed design standards for the maximum anticipated injection pressure and are maintained in a safe and leak-free condition.
13. Any remedial well work needed as a result of this injection project to repair idle, abandoned, or deeper-zone wells to protect oil, gas, or freshwater zones, will be the responsibility of the project operator.
14. Injection fluids are discharged only at sites covered by the permit and only on property owned or controlled by Gato Corp.
15. Neither the handling nor discharge of wastes cause a condition of pollution or nuisance.
16. Injection is discontinued if any evidence of damage is observed or upon written notice from the Division.

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Page 3
May 15, 2007
(Gato Corp.)

17. The injection fluid is held in impervious containers prior to injection and not be permitted to flow upon the surface of the ground or to enter water courses or ditches.
18. The Division is notified within 24-hours if there is any evidence that a well has lost mechanical integrity.
19. The Division is notified immediately in the event the project is terminated.
20. An annual project review meeting is held with Division personnel. Information which may be discussed and reviewed include: (1) project & individual well injection graphs; (2) tubing & annular pressures; (3) Rate Increase or drops; (4) Project Expansion Plans including facilities, new wells & reworks; (5) Recent fluid analysis; (6) Status & results on MIT and monitoring data; (7) Any problems, complaints, or other aspects of the project.

Sincerely,



William E. Brannon
Deputy Supervisor

PA:pd

Enclosure

cc: Regional Water Quality Control Board
Project File

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DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

1416 9th STREET, ROOM 1310
SACRAMENTO, CALIFORNIA 95814
(916) 445-9686



November 17, 1986

NOTICE TO OIL AND GAS OPERATORS

In compliance with the Federal Environmental Protection Agency (EPA) requirements, the Division of Oil and Gas (Division) has prepared a Quality Assurance (QA) Plan for the proper sampling, handling, and testing of fluid samples used in the permitting, surveillance, and enforcement of the Division's Underground Injection Control (UIC) Program.

The provisions of the plan apply to the Division when collecting samples for surveillance and enforcement activities, and apply also to all operators that must collect samples pursuant to Division injection project requirements. The purpose of the plan is to ensure that all persons involved with fluid sampling utilize procedures to obtain data that are technically valid, scientifically defensible, and of proven effectiveness.

Operators collecting samples for compliance with Division requirements must follow an acceptable sampling and testing program. Appropriate bottles, such as glass or polyethylene, must be used for the type of fluid sampled and fluid analysis requested; necessary preservatives or preservation techniques must be used to preserve the stability of the fluid constituents; and appropriate field measurements (i.e., temperature, pH, conductivity) must be taken so that the laboratory can be provided with important information on the physical state of the fluid at the time of sampling.

An accurate written chain-of-custody record must be kept to trace the possession of a sample from the moment of its collection until the time of analysis. A chain-of-custody record provides assurance of the sample's origin and the timeliness of the submittal to the lab. Also, the sample bottle should be labeled to indicate pertinent information about the sample, and the laboratories performing the analyses must use EPA-accepted analytical methodologies. Furthermore, to avoid confusion and errors created when mg/l and ppm are used interchangeably, the Division requires that all analyses be recorded in mg/l. The Division also recommends the use of laboratories that are certified by the State Department of Health Services.

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NOTICE TO OIL AND GAS OPERATORS

Page 2

November 17, 1986

Enclosed for your information and use is a copy of the chain-of-custody form and a copy of a label that will be used by the Division when collecting samples. Also, laboratories that will be analyzing your samples should be contacted for information and assistance on all aspects of the fluid collection and record-keeping procedures.

Further instructions on QA compliance requirements will be incorporated into all future injection project approval letters and will be provided at annual project-review meetings. If you have any questions on the QA Program requirements, please do not hesitate to contact the appropriate Division district office.


M. G. Meffert
State Oil and Gas Supervisor

Enclosures

Gato Corp
P.O. Box 921
Los Alamos, CA, 93440

April 30, 2007

Division of Oil and Gas
Bradley Road
Santa Maria, CA
Attn: William E. Brannon
Pat Abel

RE: WATER DISPOSAL PROJECT
CAT CANYON FIELD
TOGNAZZINI 43-A

Dear Sir:

Attached is a revised Intention to Rework/Redrill Well for Tognazzini 43-A as discussed with Pat Abel. The difference from the original program is that we would attempt to clean out the 10 3/4" casing to the top of the 8 5/8" liner at 1843' and cement 7" casing to surface at this point and resume injection into the well through the 8 5/8" liner. It should be noted that injection into this zone in this well was approved by the DOG in 1979 (see attached form OG 109).

It is unlikely that the well can be cleaned out and it will probably be sidetracked. At this point we plan to drill a straight inclined hole to the injection zone which will probably be 50' to 100' north of the current completion interval in 43A.

Tognazzini 43A was approved for injection initially by the DOG in 1948 (see P3-4663) and water was injected into this well more or less constantly until the well was damaged by an earthquake in 1981. Following a workover of this well to assess the damage, a cement plug was set in the well and the well was non-operated. In 1988, the DOG notified Gato Corp that the well could be re-activated by submitting a Notice to Rework Well (Form OG107)—see attached letter of January 4, 1988. Gato Corp submitted this notice on March 14, 2007, and your reply of April 24, 2007, said the notice could not be processed due to wells "that lack adequate cement lift behind the casing extending above the injection zone.....could potentially allow injection fluid to migrate vertically."

First, I am sure you are aware that no one has a greater concern about keeping the injected fluid confined to the approved injection zone than the CEO of Gato Corp, Mr. Donn Tognazzini, since he is both a landowner and royalty owner of the lease in addition to being the lease operator.

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Second, approximately 20 million barrels of lease water have been injected in disposal wells over the last 60+ years with no evidence of vertical migration of injected fluids. Wells Tognazzini 15, 23, and 43A were all approved for injection without cement fill being considered as a problem. And, in fact, it is not a problem.

The injection zone in all of these wells has been determined by injection surveys witnessed by a DOG representative. This injection zone (see attached cross-section) is located in a fractured zone at the top of the Buff-and-Brown member of the Monterey Formation. The Monterey Formation is located within the geologic time period called the Miocene. The entire Monterey Formation is not the injection zone, only that part of the Monterey Formation located in the top of the Buff-and Brown member. The top of the Miocene is NOT the top of the Monterey. The Miocene is a time period. The Monterey Formation was deposited during this time period. In Tognazzini #43A (see attached cross-section) the Miocene--Pliocene contact is located at 1855' (probably on the basis of fossils in the cores and samples) while the top of the Monterey is apparently marked at 1695' on the log and is actually located somewhere between 2500' and 2900' in the well.

Water Shut-Off Tests were also performed in all wells drilled on the Tognazzini lease. These tests were generally witnessed by the DOG to ensure that no vertical communication existed between the producing zone below the casing and any formations cemented off behind the casing or located above the top of cement in the casing/wellbore annulus.

A summary of the three injection wells in the area of interest in the Gato Corp Tognazzini lease is listed below:

WELL	<u>15</u>	<u>23</u>	<u>43A</u>
Casing	8 5/8" @ 2108'	10 3/4" @ 2815'	10 3/4" @ 1874'
Cmt	150 sx (12 1/4")	400 sx (14")	250 sx (15 1/2")
TOC	1700'	1945'	1455'
WSO	2108'	2815'	1874'
INJ. ZONE	2750'--2900'	2510'--2550'	2965'--3450'
TOC to INJ ZONE	1050'	565'	1510'
WSO to INJ ZONE	648'	--	1031'

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

NOTICE RECEIPT ACKNOWLEDGMENT

[Signature]
REVISED

, Agent Santa Maria, California
Gato Corp April 24, 2007
X
X

I have received your notice dated March 14, 2007, of your
Intention to Rework well, "Tognazzini" 43-A (083-
01655)
Sec. 10 T. 8N, R. 32W, S.B. B&M.

Your notice cannot be processed at this time. The Division of Oil, Gas, and Geothermal Resources, has reviewed your intention to convert this well to injection. A radius of review was done by this office that identified wells within the sphere of injection that lack adequate cement lift behind the casing extending above the injection zone. The lack of cement extending above the injection zone could potentially allow injection fluid to migrate vertically. The Division has a responsibility to ensure that Class II fluid, when injected, is confined to the approved injection zone.

This office would like to meet with you to discuss available options. No work is authorized at this well location until you receive written approval from the Division.

Please contact Pat Abel or myself at (805) 937-7246 to arrange for a meeting. Should we not hear from you within 30 days the above referenced notice will be cancelled.

WEB:pd

Hal Bopp, State Oil & Gas Supervisor

By _____
Deputy Supervisor

OG113

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DIVISION OF OIL AND GAS

VEST CHURCH STREET, P. O. BOX 227

A MARIA, CALIFORNIA 93456

(805) 925-2686



January 4, 1988

John F. Kieser, Agent
Gato Corp.
3437 Crane Way
Oakland, CA 94502

WATER DISPOSAL PROJECT
CAT CANYON FIELD
WELLS "TOGNAZZINI" 23 & 43A

Dear Mr. Kieser:

A requirement of the Division of Oil and Gas for the above captioned wells is to conduct biennial injection profile surveys to confirm that injected fluid is confined to the approved zone. These wells have not been surveyed for more than two years and will not be used for future injection, as discussed in a phone conversation between A. Koller and A. Davis.

Because the casing and/or tubing can deteriorate while wells remain idle, approval to utilize these wells for injection is terminated as of this date. All injection lines to the wells must be disconnected and the wells properly shut in by January 31, 1988.

To reactivate these wells, it will be necessary to submit a Notice of Intention to Rework Well (Form OG107) for each well. Our response will specify requirements to be fulfilled before injection can resume.

Yours truly,


K. P. Henderson
Deputy Supervisor

AJK:ks

cc: Project Folders

47

Santa Maria,

Calif.

June 2,

1948

Mr. W. C. Johnson,

Los Angeles,

Calif.

Agent for Standard Oil Company of California

DEAR SIR:

Your proposal to alter casing Well No. "Tognazzini" 43-A,
 Section 10, T. 8N., R. 32W., S. B. B. & M., Cat Canyon Field, Santa Barbara County,
 dated May 12, 1948, received May 28, 1948, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

Total Depth: 3888' Plugged: 3700'

1. Complete casing record.

10 3/4" cemented 1874' WSO

1834' of 8 5/8" landed 3699', perf'd 2965-3048', 3090-3170', 3253-3699'.

Condition of Casing: No record of bad pipe.

2. Last produced. March, 1940 Est. 35 B/D Est. 28 B/D water
Date Net oil Gravity Barrel

PROPOSAL:

"The proposed work is as follows: Confirming conversation (Laurent - Dolman) 7/18/47

(1) Abandon hole as an oil well without plugging, capping or altering casing; i.e., in its present condition.

(2) Install necessary surface facilities and convert to a waste water injection well, following a trial injection period now considered conclusive and satisfactory.

Summary of water injection rates:

Month	Days Injected	Average Daily Rate Bbls.	Injection Pressure PSI
October 1947	25	770.	829
November 1947	29	786	880
December 1947	30	848	871
January 1948	31	802	855
February 1948	26	807	900
March 1948	26	799	896"

DECISION:

THE PROPOSAL IS APPROVED.

*accept above information as Subsequent
 report of operations and place records
 in regular file*

Dolman - RFB 9/14/49

Blanket bond.

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

CC - Mr. I. N. Thacker
 Mr. J. E. House
 Mr. I. Russell
 Mr. F. H. Johnson

115 751
 6-29-48
 6-29-48

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

December 3, 1979

Four operations at well "Tognazzini" 43A, API No. 083-01655, Sec. 10, T. 8N, R. 32W, S.B., B. & M. Cat Canyon Field, in Santa Barbara County, were witnessed on 11-27-79 by M. Bowers, representative of the supervisor, was present from 1400 to 1600. There were also present S. Edwards - Test Engineer

Present condition of well: 10 3/4" cem. 1874' W.S.O.; 8 5/8" ld. 1865' - 3699', perf. 2965' - 3699' in intervals. T.D. 3888 (?) E.D. 3700'.

The operations were performed for the purpose of demonstrating that all of the injection fluid is entering the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID IS CONFINED TO FORMATIONS BELOW 2965' AT THIS TIME.

11-27-79

45

Report on Operations

(805) 925-2686

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

October 19, 1982

Your operations at well "Tognazzini" 23, API No. 083-01403,
Sec. 9, T8N, R32W, S.B.B. & M. Cat Canyon Field, in Santa Barbara County,
were witnessed on 10-14-82 by D. Clark, representative of
the supervisor, was present from 1020 to 1100. There were also present K. Berger -
Consultant

Present condition of well: 24" cem. 37'; 16" cem. 300'; 10 3/4" cem. 2815' W.S.O., perfs.
@ intervals 575' - 2705'; 7" hg. 2761' - 3518', perfs. 2812' - 3516'. T.D. 3520'.

The operations were performed for the purpose of demonstrating that all the injection fluid is
entering the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID
IS CONFINED TO THE FORMATIONS BELOW 2510' AT THIS TIME.

DRC:dv

cc: Keith Berger, Gato

OG109 (12-80-15M)

By

John L. Zilberti

Deputy Supervisor

44

REPORT ON PROPOSED OPERATIONS

(805) 925-2686

120
(field code)
09
(area code)
10
(new pool code)

(old pool code)

John F. Kieser, Agent
Gato Corporation
37 Crane Way
Oakland, CA 94502

Santa Maria, California
August 20, 1981

Your _____ convert to _____
proposal to water disposal well "Tognazzini" 15
A.P.I. No. 083-01453, Section 9, T. 8N, R. 32W, S.B. B. & M.,
Cat Canyon field, Gato Ridge area, Monterey pool,
Santa Barbara County, dated 8-18-81, received 8-19-81 has been examined in conjunction with records
filed in this office.

NOTE: Plug 3951' - 3724' (calc.) E.D. 3549', 8 5/8" W.S.O. 2108'. Junk: 3500' - 3546'.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout-prevention equipment, as per Manual No. MO 7, 1980 edition, equivalent to Division of Oil and Gas Class IIA 1M, shall be installed and maintained in operating conditions at all times.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. The general requirements established in letter dated August 19, 1981 shall be made part of this report.
4. Injection shall be through tubing on packer set immediately above the zone of injection.
5. Copies of all surveys shall be filed with this division.
6. A step-rate pressure test shall be conducted prior to sustained injection above 450 psi plus friction flow losses.
7. THIS DIVISION SHALL BE NOTIFIED TO WITNESS the step rate test.
8. THIS DIVISION SHALL BE NOTIFIED TO WITNESS all injection-profile surveys referred to in Item 9 of above letter, the first within 3 months after injection has started.

NOTES:

1. There are no freshwater-bearing strata in this area.
2. The water to be injected tests 6033 ppm NaCl and is produced from neighboring oil wells.
3. Injection will be into the Monterey shale. Strata in the injection interval contain oil and salt water.
4. Approximate surface location of well: From NE cor Sec. 9, 560S 1880W.
5. Injected water might also have some water-flood effect.

JLZ:dv
NO BOND
cc: Department of Water Resources
Water Quality Control Board

M. G. MEFFERD, State Oil and Gas Supervisor

By 
Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

43

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

NOTICE RECEIPT ACKNOWLEDGMENT

Donn V. Tognazzini, Agent
Gato Corp.
P. O. Box 599
Los Olivos, CA 93441

Santa Maria, California
April 25, 2007

I have received your notice dated March 14, 2007, of your
Intention to Rework well "Tognazzini" 43-A, API # 083-01655,
Sec. 10 T. 8N, R. 32W, S.B. B&M.

Your notice cannot be processed at this time. The Division of Oil, Gas, and Geothermal Resources, has reviewed your intention to convert this well to injection. A radius of review was done by this office that identified wells within the sphere of injection that lack adequate cement lift behind the casing extending above the injection zone. The lack of cement extending above the injection zone could potentially allow injection fluid to migrate vertically. The Division has a responsibility to ensure that Class II fluid, when injected, is confined to the approved injection zone.

This office would like to meet with you to discuss available options. No work is authorized at this well location until you receive written approval from the Division.

Please contact Pat Abel or myself at (805) 937-7246 to arrange for a meeting. Should we not hear from you within 30 days the above referenced notice will be cancelled.

WEB:pd

Hal Bopp, State Oil & Gas Supervisor

By William E. Banner
Deputy Supervisor

IDLE WELL MONITORING RECORD

WELL NAME Toonazzini 43-A
BFV S

WELL TYPE _____

[illegible]

REMARKS:

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P.O. BOX 227
SANTA MARIA, CALIFORNIA 93456
(805) 925-2686



January 4, 1988

John F. Kieser, Agent
Gato Corp.
3437 Crane Way
Oakland, CA 94502

WATER DISPOSAL PROJECT
CAT CANYON FIELD
WELLS "TOGNAZZINI" 23 & 43A

Dear Mr. Kieser:

A requirement of the Division of Oil and Gas for the above captioned wells is to conduct biennial injection profile surveys to confirm that injected fluid is confined to the approved zone. These wells have not been surveyed for more than two years and will not be used for future injection, as discussed in a phone conversation between A. Koller and A. Davis.

Because the casing and/or tubing can deteriorate while wells remain idle, approval to utilize these wells for injection is terminated as of this date. All injection lines to the wells must be disconnected and the wells properly shut in by January 31, 1988.

To reactivate these wells, it will be necessary to submit a Notice of Intention to Rework Well (Form OG107) for each well. Our response will specify requirements to be fulfilled before injection can resume.

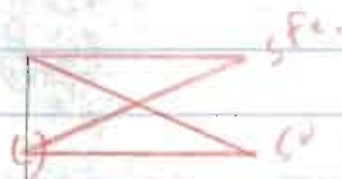
Yours truly,


K. P. Henderson
Deputy Supervisor

AJK:ks

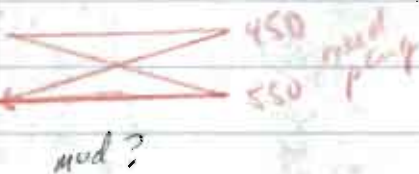
cc: Project Folders

sfc pipe?



Gato Corporation
"Tognazzini" 43A

need cas. shot @ 550' →



mud?

RB/Kerth Burger 3/25/91
mud in hole? If not,
hole will need mud.
cf @ 50' and cem
to sfc, (could use
macaroni if conductor
set)

FOO 1455' ±
panted @ 1689

10³/₄ cm 1874'
WSO

10³/₄ pka w/
2³/₈ ton stub
below plug

plug 1737'-902'

Keller/Burger 3/26/91
Will need cavity shot and
squeeze cem. above S.B. with
100' of cement left inside casing.

8⁵/₈" ID. 1866'-3699

pups 2165-3699

ac

DIVISION OF OIL AND GAS
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Gato Corporation Well No. "Tognazzini" 43-A
API No. 083-01655 Sec. 10, T. 8N, R. 32W, S.B. B.&M.
County Santa Barbara Field Cat Canyon

RECORDS RECEIVED DATE
Well Summary (Form OGI00) _____
History (Form OGI03) 9-10-81 /
Core Record (Form OGI01) _____
Directional Survey _____
Sidewall Samples _____
Other _____
Date final records received _____
Electric logs: _____

STATUS STATUS
Producing - Oil IDLE Water Disposal ☒
Idle - Oil _____ Water Flood _____
Abandoned - Oil _____ Steam Flood _____
Drilling - Idle _____ Fire Flood _____
Abandoned - Dry Hole _____ Air Injection _____
Producing - Gas _____ Gas Injection _____
Idle - Gas _____ CO2 Injection _____
Abandoned - Gas _____ LPG Injection _____
Gas-Open to Oil Zone _____ Observation _____
Water Flood Source _____
DATE 9/23/81
RECOMPLETED _____
REMARKS _____

ENGINEER'S CHECK LIST
1. Summary, History, & Core record (dupl.) _____
2. Electric Log _____
3. Operator's Name _____
4. Signature _____
5. Well Designation _____
6. Location _____
7. Elevation _____
8. Notices _____
9. "T" Reports _____
10. Casing Record _____
11. Plugs _____
12. Surface Inspection _____
13. Production IDLE H2O Disposal
14. E Well on Prod. Dir. Sur. _____

CLERICAL CHECK LIST
1. Location change (F-OGD165) _____
2. Elevation change (F-OGD165) _____
3. Form OGD121 _____
4. Form OGI59 (Final Letter) _____
5. Form OGD150b (Release of Bond) _____
6. Duplicate logs to archives _____
7. Notice of Records due (F-OGD170) _____

RECORDS NOT APPROVED
Reason: _____

RECORDS APPROVED DC 7/23/81

RELEASE BOND _____

Date Eligible _____
(Use date last needed records were received.)

MAP AND MAP BOOK 310 DC 9/26/81

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED

SEP 16 1981

Santa Maria, California

History of Oil or Gas Well

Operator Gato Corporation Field Cat Canyon County S. B.
Well Tognazzini 43-A Sec. 10, T. 8N, R. 32W, SB. B. & M.
A.P.I. No. 08301655 Name K. H. Berger Title Engineer
Date August 27, 1981 (Person submitting report) (President, Secretary or Agent)

Signature K. H. Berger
For John Kieser

301 N. Depot St. Santa Maria, CA. 805-922-0809
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
8-5-81	Injection Pressure 1175 P.S.I.
8-6-81	Injection Pressure 980 P.S.I.
8-10-81	Injection Pressure 375 P.S.I.
8-13-81	Ran tracer survey. Indicated packer failure. Shut well down.
8-14-81	MIRU pulling unit. Installed B.O.P. Worked tubing. Pulled packer to 1707'. Unable to pull higher. Spotted 500 gals. of 15% acid around the packer. Worked tubing. Would not pull free.
8-15-81	Fired string shot and backed tubing off 4' above packer, leaving 31', 2-7/8" tubing tail, 10-3/4" Baker tension packer and 4' x 2-7/8" tubing pup in the hole. Pulled and lay down 2-7/8" tubing. Rigged up to run 30' x 9", wash over pipe w/9-3/4" OD wash over shoe.
8-16-81	Ran washover tools on 3 1/2" tubing. Stopped at 903; worked to 905. Unable to get deeper. P.O.H. Ran casing inspection tool. Stopped at 903, logged to surface. Ran 9-5/8" bit on 4-3/4" D.C., below 3 1/2" tbg. Stopped at 903'. Rotated and circulated. Drilled hard to 912', then dropped through. Ran to 1663'. Drilled hard to 1687'.
8-17-81	Drilled hard to 1688', than broke through. Ran to 1698' P.O.H. Ran overshot with 2-7/8" grapple. Attempted to engage fish. P.O.H. w/no recovery. Ran overshot w/grapple for 3-1/2" collar. Attempted to engage fish. P.O.H. w/no recovery. Ran 7 1/2" impression block on 3 1/2" tubing. Took weight at 1698' P.O.H. Condition of overshots and impression block indicate 10-3/4" casing parted and offset at approximately 1698'. Ran 2 joints of 2-7/8" tubing with angle cut collar on bottom below 3 1/2" tubing. Stopped at 1698'. Rotated and dropped through. Lowered tubing to 1748' where it started taking weight. Pushed to 1760'. Unable to get deeper. Plug #1. Hung tubing at 1737'. Equalized 175 sxs of cement treated w/2% calcium chloride. Cement in place at 8:55 P.M. P.O.H. Ran 8-5/8" bit on 3 1/2" tubing.
8-18-81	Bit took weight at 899'. Drilled to 903'. Pulled up and waited on cement until 8:00 A.M. Lowered bit to 903' where it took weight. Location of top of cement witnessed and approved by the D.O.G. P.O.H. Installed well head. <u>Suspended Operations.</u>

9-10-81
DW

31

DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

August 24, 1981

Your operations at well "Tognazzini" 43-A, API No. 083-01655, Sec. 10, T.8N, R.32W
S.B., B. & M. Cat Canyon Field, in Santa Barbara County, were witnessed
on 8-18-81 S. Fields, representative of the supervisor, was
present from 0730 to 0830. There were also present W. Ayres - Contractor Foreman

Present condition of well: 10 3/4" cem. 1874' W.S.O. Bad casing 1698'; 8 5/8" ld. 1865' -
3699', perfs. @ intervals 2965' - 3699'. Junk: 2 7/8" - 4' pup joint, 10 3/4"
packer. T.D. 3888'. E.D. 3700'. Plugged with cement 1737' - 902'.

The operations were performed for the purpose of plugging the hole in the process of suspend-
ing operations.

DECISION: THE LOCATION AND HARDNESS OF THE CEMENT PLUG @ 902' IS APPROVED.

SAF:dv

M. G. MEFFERD
State Oil and Gas Supervisor
By *John L. Zulberti*
Deputy Supervisor
John L. Zulberti

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DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator GATE CORPORATION Well No. "TOPAZ 27-1W1" 43-A
 API No. 083-01655 Sec. 10, T. BN, R. 32W, S. 8 B&M
 Field CAT CANYON, County SANTA BARBARA. On August 18, 1981,
 Mr. S. FIELDS, representative of the supervisor was present from 0730 to 0830.
 There were also present W. Ayres - Contractor FIREMAN

Casing record of well: 10 3/4" CEM. 1874 W.S.D., BAD CASING 1698'; 8 5/8" 18.
1865-3699', parts & intervals 2965'-3699'. Junk: 2 7/8" - 4' pup joint, 10 3/4" Packer. T.D. 3888 F.D. 3700'. Plugged with CEM. 1737'-902'.

The operations were performed for the purpose of plugging the hole in the
process of suspending operations

☐ The plugging/cementing operations as witnessed and reported are approved.

☒ The location and hardness of the cement plug @ 902 ' is approved.

Hole size: _____ " fr. _____ ' to _____ ' , _____ " to _____ ' & _____ " to _____ '.

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____ " shot/cut at _____ ' , _____ ' , _____ ' pulled fr. _____ ' ;
 _____ " shot/cut at _____ ' , _____ ' , _____ ' pulled fr. _____ ' .

Junk (in hole): 2 7/8" - 4' pup joint, 10 3/4" packer

Hole fluid (bailed to) at _____ '. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt./Sample	Date & Time	Engr.
8/18/81	140CF	thru 1737	10:45	W. Ayres	902	all wt	0730 8/18/81	SF

Note: Location of thg depth indicates PARTIAL CASING DROPPED

35

REPORT ON PROPOSED OPERATIONS

(805) 925-2686

(field code)

(area code)

(new pool code)

(old pool code)

John F. Kieser, AgentGato Corporation3437 Crane WayOakland, CA 94502Santa Maria, CaliforniaAugust 18, 1981

Your _____ proposal to plug and suspend well "Tognazzini" 43-A,
A.P.I. No. 083-01655, Section 10, T. 8N, R. 32W, S.B. B. & M.,
Cat Canyon field, Gato Ridge area, Monterey pool,
Santa Barbara County, dated 8-17-81, received 8-18-81 has been examined in conjunction with records
filed in this office.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout-prevention equipment, as per Manual No. MO 7, 1980 edition, equivalent to Division of Oil and Gas Class IIA 1M, shall be installed and maintained in operating conditions at all times.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. To prevent movement of other fluids into the well bore, top-hole rotary mud weighing at least 70 lbs. per cu. ft., or a mixture of gel and water--approximately 30 sacks per 100 bbl., or 8.5 percent by weight--shall be used to replace any oil or water in the hole and to fill all portions of the hole not plugged with cement.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS the location and hardness of the cement plug at 1598'.

*(Might be shut in into the
safety zone)*

JLZ:dv
NO BOND

M. G. MEFFERD, State Oil and Gas Supervisor

By John F. Kieser

Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

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DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
<i>Blue Dets</i>		8-18-81

No Bond

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3. Public Resources Code, notice is hereby given that it is our intention to rework well No. Tognazzini 43 A, API No. 083-01655, Sec. 10, T. 8N, R. 32W, S.B. B. & M., Cat Canyon Field, Santa Barbara County.

The present condition of the well is as follows:

1. Total depth. 3,888' Plugged 3,700'

2. Complete casing record, including plugs and perforations:

10-3/4", 40.5#, smlss, grade "C". CEmtd at 1874', W/250 sxs in a 15 1/2" hole. WSO by DST 5/12/37 at shoe of 10-3/4". 1834' of 8-5/8", 36#, smlss, grade "C" liner landed at 3600', top @ 1865'. Machine perf'd at selected intervals between 2695' and 3699'. 10-3/8" casing apparently parted and offset at 1698'. 10-3/4" baker AB tension packer below casing offset point.

3. Present producing zone name Monterey Zone in which well is to be recompleted None

4. Present zone pressure 1,000 + New zone pressure N/A

5. Last produced _____ (Date) _____ (Oil, B/D) _____ (Water, B/D) _____ (Gas, Mcf/D)

or
6. Last injected 8/13/81 1,300 375
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

1. Plug with cement from above the packer to 1598'.
2. Locate top of plug D.O.G. to witness.
3. Suspend operations.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 301 N. Depot St.
(Street)
Santa Maria, CA. 93454
(City) (State) (Zip)
Telephone Number 805 - 922-0809

Gato Corporation
(Name of Operator)
By K. H. Berger 8-17-81
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

APR 1 1981

Santa Maria, California

TOGNAZZINI 43-A

Step Rate Injection Test

- 2-3-81 Shut injection pump down at 8:00 AM.
- 2-4-81 Rigged up Cal-Coast Acidizing pump truck. The shut-in well head pressure was 660 psi. Started in pumping disposal water as follows:

FROM	TIME TO	RATE GPM	RATE B/D	BPM	PRESS. PSI AT END OF TIME INTERVAL	in 1976:
8:32 AM	9:32 AM	24	823	.57	790 0 790	1875' of 2 3/8" tubing (plus 1843)
9:32 "	10:02 "	40	1371	.95	830 9 821	
10:02 "	10:32 "	48	1646	1.14	875 15 866	
10:32 "	11:02 "	64	2194	1.52	980 29 951	
11:02 "	11:32 "	76	2606	1.81	1025 39 986	
11:32 "	12:02 PM	82	2811	1.95	1050 45 1005	
12:02 PM	12:32 "	96	3291	2.29	1190 71 1119	
12:32 "	1:02 "	112	3840	2.67	1280 84 1196	
1:02 "	1:32 "	128	4389	3.05	1340 98 1242	
1:32 "	2:02 "	136	4663	3.24	1430 133 1297	This is 1.13 psi/ft at the shoe!

Injected total of 593 Bbls during the test. Placed well back in normal injection service.

Started above frac pressure.

790# + 825 hydro = 0.86 psi/ft

14

12

10

8

6

4

2

0

PSI x 100

20

40

60

80 GPM 100

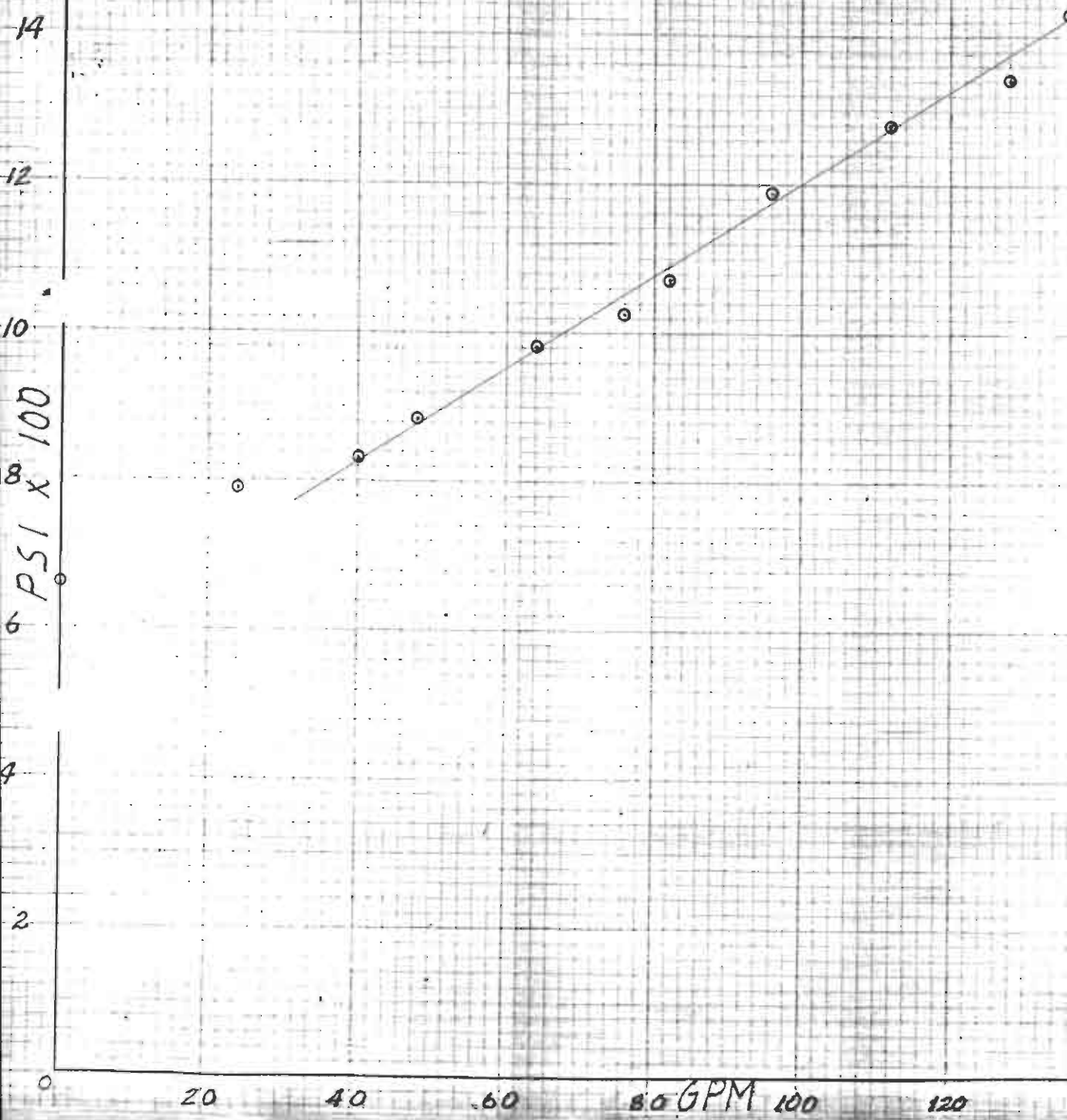
120

140

160

2-4-31

31



DIVISION OF OIL AND GAS

Report on Operations

(805) 925-2686

John F. Kieser, Agent

Gato Corporation

3437 Crane Way

Oakland, CA 94502

Santa Maria

Calif.

December 3, 1979

Your operations at well "Tognazzini" 43A, API No. 083-01655, Sec. 10, T. 8N, R. 32W
S.B., B. & M. Cat Canyon Field, in Santa Barbara County, were witnessed
on 11-27-79 by M. Bowers, representative of the supervisor, was
present from 1400 to 1600. There were also present S. Edwards - Test Engineer

Present condition of well: 10 3/4" cem. 1874' W.S.O.; 8 5/8" ld. 1865' - 3699', perf. 2965' -
3699' in intervals. T.D. 3888 (?) E.D. 3700'.

The operations were performed for the purpose of demonstrating that all of the injection fluid
is entering the intended zone.

DECISION: THE OPERATIONS ARE APPROVED AS INDICATING THAT ALL OF THE INJECTION FLUID
IS CONFINED TO FORMATIONS BELOW 2965' AT THIS TIME.

MAB:dv

By

M. G. MEFFERD

State Oil and Gas Supervisor

Deputy Supervisor

John L. Zulberti

30

DIVISION OF OIL AND GAS

WATER SHUT-C TEST

No. T

379.303

Operator Gato Corp.Well name and no. "Tognazzini" 43A Sec. 10, T. 8N, R. 32W, SB B&MField Cat Canyon, County Santa Barbara was tested for water shut-off on 11/27/79, Mr. M Bowers, representative of the supervisor was present from 1400 to 1600. There were also present Scott Edwards - Test Engr.

Casing record of well:

10 3/4" com 1874' WSO; 8 5/8" ID. 1865' - 3699', port. 2965' - 3699' in intervals. TD. 3888(?) ED. 3700'The operations were performed for the purpose of demonstrating that all of the injection fluid is entering the intended zone.☐ The _____" shut-off at _____' is approved.☐ The seal between the _____" and _____" casings is approved.☒ The operations are approved as indicating that all of the injection fluid is confined to the formations below 2965' at this time.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Sqd. Away	Final Press	Test psi/min. Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Depth or interval tested _____

The hole was open to _____' for test.

FORMATION TEST:

Packer(s) _____' & _____' Tail _____' Bean size _____" Cushion _____

IHP _____ IFP _____ FFP _____ FHP _____

Blow _____

Open for test _____ Hr. _____ min. Fluid entry _____

BAILING TEST:

The hole fluid was bailed to _____', at _____ on _____ 19__.

The hole fluid was found at _____', at _____ on _____ 19__.

(time)

PRODUCTION TEST:

Gauge/meter reading _____ on _____ 19__, at _____ pump depth _____' Engr. _____

Gauge/meter reading _____ on _____ 19__, at _____ Engr. _____

Fluid level _____' surveyed on _____ 19__, reviewed (witnessed) by _____

Total fluid produced, Bbls. _____ Net oil _____ Water _____

Rate: _____ B/D oil, _____ B/D water, _____ % water cut

INJECTION SURVEY:

RA/Spinner/Temperature survey run at 2086 B/D & 860 psi on 11/27 1979, fluid confined below 2965' (Packer depth 1843') 162 tail 1875'Pick-up 3660

reported by
Sgt Edwards

Top pert. ck @ 2925
rate = 1660 B/D

wait 5 min — no tracer show

log down to 3000

— tracer moving down

— — — —

— — — —

— — — —

Pkr. & shoe ck @ 1800

wait 5 min — no tracer show

log down

— ✓ — —

log up

— ✓ — —

tbody rate ck:

1700-1800 = 2086 B/D

500-600 = 2086 B/D

900-1000 = 2086 B/D

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County Cat Canyon

District 3

Former Owner: Chevron U.S.A., Inc.

Date January 16, 1979

Description of Property

List of Wells Sec. 9, T. 8 N., R. 32 W. S.B.B.&M.

All Wells

Sec. 10, T. 8 N., R. 32 W., S.B.B.&M.

All Wells

Sec. 15, T. 8 N., R. 32 W., S.B.B.&M.

All Wells

Date of Transfer December 20, 1978

New Owner: Gato Corporation

Address: 1717 - 28th St., Suite A
Bakersfield, CA 93301

Telephone No. (805) 325-0038

Type of Organization Corporation

Reported by: Chevron U.S.A., Inc.

Confirmed by: Gato Corporation

New Operator New Status PA

, Old Operator New Status PA

Request Designation of Agent

Remarks:

JLZ:mjn

cc: Conservation Committee

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 148		
Notice to be cancelled		
Bond status		

Deputy Supervisor

LEGEND

PA—Producing Active
NPA—Non Potential Active
PI—Potential Inactive
NPI—Non Potential Inactive
Ab—Abandoned or No More Wells

DIVISION OF OIL AND GAS

CHECKLIST - RECORDS RECEIVED AND WELL STATUS

Company Standard Oil Co. of Calif. Well No. "Tognazzini" 43-A
 API No. (083-01655) Sec. 10, T. 8N, R. 32W, S.B. B.&M.
 County Santa Barbara Field Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>
Well Summary (Form OGD100)	<u>no records required</u>
History (Form OGD103)	<u>" " " "</u>
Core Record (Form OGD101)	<u>" " " "</u>
Directional Survey	<u>" " " "</u>
Sidewall Samples	<u>" " " "</u>
Other	<u>" " " "</u>
Date final records received	<u>" " " "</u>
Electric logs:	<u>" " " "</u>
R A Survey	<u>6-24-76</u>

<u>STATUS</u>	<u>STATUS</u>
Producing - Oil	Water Disposal <input checked="" type="checkbox"/>
Idle - Oil	Water Flood
Abandoned - Oil	Steam Flood
Drilling - Idle	Fire Flood
Abandoned - Dry Hole	Air Injection
Producing - Gas	Gas Injection
Idle - Gas	CO2 Injection
Abandoned - Gas	LPG Injection
Gas-Open to Oil Zone	Observation
Water Flood Source	
DATE	
RECOMPLETED	<u>May ? 1976</u>
REMARKS	

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.)
2. Electric Log
3. Operator's Name
4. Signature
5. Well Designation
6. Location
7. Elevation
8. Notices ☒
9. "T" Reports ☒
10. Casing Record
11. Plugs
12. Surface Inspection
13. Production
14. E Well on Prod. Dir. Sur.

CLERICAL CHECK LIST

1. Location change (F-OGD165)
2. Elevation change (F-OGD165)
3. Form OGD121
4. Form OGD159 (Final Letter)
5. Form OGD150b (Release of Bond)
6. Duplicate logs to archives
7. Notice of Records due (F-OGD170)

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED ☒ SK

RELEASE BOND

Date Eligible _____
 (Use date last needed records were received.)

MAP AND MAP BOOK 310 6-28-76 SK

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

Report on Operations

No. T. 376-158

Mr. R. E. France, Agent
Standard Oil Co. of Calif.
P. O. Box 605
La Habra, CA 90631

Santa Maria Calif.
June 11, 1976

DEAR SIR:

Operations at well No. "Tognazzini" 43-A, API No. (083-01655), Sec. 10, T. 8N, R. 32W,
S.B., B & M. Casmalia Field, in Santa Barbara County, were witnessed
on June 3, 1976. Mr. P. J. Kinnear, representative of the supervisor was
present from 0845 to 1200. There were also present B. Macias, tester, and
J. Laverly, engineer.

Present condition of well: 10 3/4" cem. 1874' WSO; 8 5/8" ld. 1865-3699', perf. @
intervals 2965-3699', T.D. 3798'. Effective depth 3700'.

The operations were performed for the purpose of demonstrating that the injected fluid is
entering the intended zone.

DECISION: THE OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED AS INDICATING THAT
ALL OF THE INJECTION FLUID IS ENTERING THE FORMATIONS BELOW 1874' AT
THIS TIME.

PJK:db

HAROLD W. BERTHOLF

JOHN E. MCINTOSH
State Oil and Gas Supervisor

By

Deputy

DIVISION OF OIL AND GAS
WATER SHUT-OFF TEST

7376-158
JD/gk

Water Shut-Off Test

R/A Tracer Method

Operator Standard Oil Co of Calif.

Well No. "Tognazzini" 43-A

Sec. 10, T. 8N, R. 32W, S.B. B&M

Field Cut Cyn, County Santa Barbara was tested for water shut-off on 6/3/76, Mr. PeKinnear, representative of the supervisor was present from 0845 to 1300. There were also present

B. Macias, Tester & T. Sawyer. J. Lavery, Engr. @ intervals
Casing record of well: 10 3/4 cas 1874 wso; 8 7/8 id 1865 - 3699, perf 2965 - 3699
T.D. 3798' Eff. Depth 3700'.

The operations were performed for the purpose of demonstrating That The injected Fluid is entering The intended zone.

- ☐ The _____" shut-off at _____' is approved.
- ☐ The operations as witnessed and reported are approved and indicate that no fluid has access to the well from the annulus between _____" and _____" casings.
- ☒ The operations as witnessed and reported are approved as indicating that all of the injection fluid is ~~confined to~~ entering the formations below 1874' at this time. ✓

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
			<u>See history</u>								

Depth or interval tested pickup @ 3550'

The hole fluid was bailed to _____' at _____ on _____ 19____.

The hole was open to _____' for test.

Packer(s) _____' & _____' Tail _____' Bean size _____" Cushion _____

IHP _____ IFP _____ FFP _____ FHP _____

Blow _____

Open for test _____ Hr. _____ min. Fluid entry _____

Date _____ 19____ Time _____ Guage/meter reading _____ Pump depth _____' Engr. _____

Date _____ 19____ Time _____ Guage/meter reading _____ Engr. _____

Fluid level _____' surveyed on _____ 19____, reviewed (witnessed) by _____

Total fluid produced, Bbls. _____ Net oil _____ Water _____

Rate: _____ B/D oil, _____ B/D water, _____% water cut

RA/Spinner (Temperature) survey run at 1900 ± B/D & 900 psi on June 3 1976,

fluid confined below 1874' (Packer depth 1843')

Spinner Rates @ 500 + 1500 = 1900 B/D Temp break over 2665' + 3060'

PK + shoe ck - drop + pass slug @ 1800 wait 300 sec - log dn 1975 No Kick

* Top perf ck - 2950 drop + pass slug - wait 300 sec - log dn - Kick @ 2970 (300 b/d)?

* Fluid volume exiting @ top perf is not high enough - Highest volume inside casing approx 800 B/D @ 2000' - Fluid appears to be going out

OGD8 (2-75-GSRI-5M) behind casing @ liner hanger.

R/A drop check @ 1600-1700 confirms spinner rate = 1900 B/D

(24)

RESOURCE AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 376-186
WATER-DISPOSAL PROJECT
GATO RIDGE AREA
MONTEREY ZONE

Mr. R. E. France
Standard Oil Co. of Calif.
P. O. Box 605
La Habra, CA 90631

Santa Maria Calif.
May 7, 1976

Dear Sir:

(083-01655)
Your proposal to rework Well No. "Tognazzini" 43-A
Section 10, T. 8N., R. 32W., S.B.B. & M., Cat Canyon Field, Santa Barbara County,
dated 4-22-76, received 4-29-76, has been examined in conjunction with records filed in this office.

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. The general requirements established in letter dated May 7, 1976, shall be made part of this report.
2. Copies of all surveys shall be filed with this Division.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS all injection-profile surveys referred to in Item 4 of the above letter, the first within 30 days after injection has started.

NOTES:

1. There are no freshwater-bearing strata in this area.
2. The water to be injected tests 5600 ppm NaCl and is produced from neighboring oil wells.
3. Injection will be into the Monterey zone. Strata in the injection interval contain oil and salt water.
4. Approximate surface location of well: From SW cor Sec. 10, T. 8 N., R. 32 W., S.B.B. & M., 2250' N., 500' E.
5. Injected water might also have some water-flood effect.
6. Injection into this well was originally approved in report No. P3-4663 dated June 2, 1948.

Blanket bond

AJK:db

cc Dept. Water Resources
Water Qual Cont Bd

HAROLD W. BERTHOLF
~~JOHN L. ZALBERT~~, State Oil and Gas Supervisor

John L. Zalbert

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DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

DIVISION OF OIL AND GAS
RECEIVED

APR 29 1976

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	114	121
Blanket		4-29-76 mjn

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. Tognazzini #43-A, API No. 083-01655, Sec. 10, T. 8-N, R. 32-W, S.B. B. & M., Gato Ridge Field, Santa Barbara County. The present condition of the well is as follows:

1. Total depth. 3888' PLUGGED: 3700'

2. Complete casing record, including plugs and perforations:

10-3/4", 40.5#, SMLS, Grade C, cemented in 15-1/2" hole at 1874' with 250 sacks. WSO by Drill Stem Test May 12, 1937 at shoe of 10-3/4".
1834' of 8-5/8", 36#, SMLS, Grade C landed 3699', top 1865'. Perforated 16 rows, 3/8" holes, 1-1/2" centers, 2965'-3048', 3090'-3170', 3253'-3433' and 8 rows, 2" slots x 40 mesh, 6" centers 3433'-3699'.

3. Present producing zone name Monterey Zone in which well is to be recompleted Monterey

4. Present zone pressure 1000+ New zone pressure 1000+

5. Last produced -- -- -- --
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

or

6. Last injected December 1951 436 -- 800
(Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

1. Pull tubing.
2. Land tubing at 1875' with packer at 1838'.
3. Inject waste water at 1500+ B/D at 900+ psig surface pressure.
4. After stabilization, run radioactive tracer and spinner survey to establish injection profile.

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P. O. Box 605
(Street)
La Habra, California 90631
(City) (State) (Zip)
Telephone Number (213) 691-2251

Standard Oil Company of California, WOI
(Name of Operator)
By R. E. France April 22, 1976
(Name) (Date)
Type of Organization Corporation
(Corporation, Partnership, Individual, etc.)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS
REPORT OF CORRECTION OR CANCELLATION

Santa Maria California

MR. R. E. France, Agent
STANDARD OIL COMPANY OF CALIFORNIA
5751 Carpinteria Avenue
Carpinteria, C A 93013

June 22, 1973

In accordance with your request (Form 24) dated June 11, 1973

the following change pertaining to your well No. "Tognazzini" 43-A (083-01655),
Sec. 10, T. 8N, R. 32W, S.B.B. & M., Cat Canyon field,
Santa Barbara County, District No. 3, is being made in our records:

☐ The corrected location is _____

☐ The corrected elevation is _____

☐ Report No. _____, dated _____, has been
corrected as follows: _____

☒ Your notice to determine injectivity dated July 8, 1972,
(Drill, abandon, etc.)
and our report No. P. 372-238, issued in answer thereto, are hereby cancelled
inasmuch as the work will not be done. If you have a drilling bond on file covering
this notice it will be returned. No request for such return is necessary.

☐ Other: _____

Map No.	Map Letter	Bond No.	Forms		
			113	114	121
<u>310</u>	<u>4-2875</u> <u>82</u>				<u>6-22-73</u>

JLZ:MT

cc: Conservation Committee

JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

By [Signature]
Deputy Supervisor

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 372-238

Mr. E. E. France, Agent
Standard Oil Company of California
5751 Carpinteria Avenue
Carpinteria, CA 93013

Santa Maria Calif.
July 18, 1972

DEAR SIR:

Your proposal to determine injectivity in Well No. "Tognazzini" 43-A,
Section 10, T. 8N, R. 32W, S.B. B. & M., Cat Canyon Field, Santa Barbara County,
dated 7-8-72, received 7-17-72, has been examined in conjunction with records filed in this office.

(083-01655)

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT:

1. A notice and supporting data shall be filed with this Division if the injectivity test is found to be satisfactory.
2. The duration of the injectivity test shall not exceed 30 days.
3. A report on Form 110B shall be filed, in duplicate, showing the injection zone, the amount of fluid injected, the injection pressure required and the source of injected water.

Blanket bond

JLZ:al

JOHN F. MATTHEWS, Jr. State Oil and Gas Supervisor

By John F. Matthews, Deputy

DIVISION OF OIL AND GAS

JUL 17 1972

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

Santa Maria, California

This notice must be given before work begins; one copy only

Carpinteria, Calif. July 8, 1972

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to
 resuming water injection
 commence the work of ~~deepening, redrilling, plugging or altering casing~~ at Well No. Tognazzini 43A
 (Cross out unnecessary words)

, Sec. 10, T. 8N, R. 32W, S.B. B. & M.

Gato Ridge Field, Santa Barbara County.

The present condition of the well is as follows:

1. Total depth. 3888' Plugs: 3700'
(mat to D.F. = 4.6')
2. Complete casing record, including plugs:
10-3/4", 40.5#, Smls. Grade C, cmt'd. in 15-1/2" hole @ 1874' with 250 sacks
"Velo" cement.
WSO by D.S. Test, 5/12/37, @ shore of 10-3/4"
1834' of 8-5/8", 36#, Smls. Grade C landed @ 3699'; top @ 1865'.

3. Water Last Injected: December, 1951, 436 B/D @ 800 psig

3. ~~Last produced~~ (Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)

The proposed work is as follows:

1. Pull tubing and ascertain condition of casing.
2. Land open-end tubing in a packer @ 1850'±.
3. Commence injecting water at estimated rate of 1500 B/D and 2000 psig surface pressure.
4. Run spinner, radioactive tracer and temperature surveys to establish injection profile and zonal segregation.

Map No.	Map Letter	Block No.	Section

7-17-72
7-17-72
R.E.

5751 Carpinteria Avenue
Carpinteria, California 93013

(Address)

805 - 684-4531

(Telephone No.)

STANDARD OIL COMPANY OF CALIFORNIA, WOI

(Name of Operator)

By

R. E. France, Manager
Prod. Dept., So. Division



**Standard Oil Company of California,
Western Operations, Inc.**

5751 Carpinteria Avenue, Carpinteria, CA 93013

March 29, 1971

G. L. Laurent
District Superintendent
Carpinteria District
Producing Department

DIVISION OF OIL AND GAS
RECEIVED

MAR 31 1971

Santa Maria, California

Mr. A. G. Hluza
Division of Oil and Gas
301 W. Church Street
P. O. Box 227
Santa Maria, California 93454

WATER DISPOSAL - CAT CANYON FIELD
MONTEREY ZONE - GATO RIDGE AREA

Dear Mr. Hluza:

Please refer to your March 3, 1971, subject letter.

Our Tognazzini well No. 43A has been an idle waste water injector since 1949. The well has been incorrectly shown on the monthly Form 110 as an idle producer. The April, 1971, Form 110 will show it correctly as an idle injector.

We are currently reviewing the Gato Ridge Area for possible waste water injection and may again wish to utilize Tognazzini Well 43A as a waste water injector. If we do decide to utilize Well 43A, we will notify your office of our plans and request your prior approval.

Very truly yours,

G. L. Laurent

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March 3, 1971

Mr. R. E. France, Agent
Standard Oil Company of California
5751 Carpinteria Avenue
Carpinteria, California 93013

Dear Mr. France:

WATER DISPOSAL
CAT CANYON FIELD
MONTEREY ZONE
GATO RIDGE AREA

Records on file in this office indicate that your well No. "Tognazzini" 43-A, Sec. 10, T. 8 N., R. 32 W., S.B.B. & M., has been idle for longer than one year.

Please inform this Division as to your future plans regarding the well.

Your attention is directed to the following provisions:

1. The well shall be reported monthly on Form 110-B until such time as the well is either abandoned or converted to another use.
2. This Division shall be notified prior to the resumption of injection into the well. Additional requirements may be outlined at that time.

Yours very truly,

A. G. Hluza

A. G. HLUZA
Deputy Supervisor

AGH:al

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF CORRECTION OR CANCELLATION

Santa Maria California

Mr. R. E. France, Agent October 21, 1969
Standard Oil Co. of Calif.
5751 Carpinteria Ave.
Carpinteria, Calif. 93013

In accordance with _____

the following change pertaining to your well No. "Tomazzini" 43-A,
 Sec. 9, T. 8N, R. 32W, S.B.B. & M., Cat Canyon field,
Santa Barbara County, District No. 3, is being made in our records:

☒ The corrected location is Sec. 10, T. 8 N., R. 32 W., S.B.B. & M.

☐ The corrected elevation is _____

☐ Report No. _____, dated _____, has been
 corrected as follows: _____

☐ Your notice to _____ dated _____,
 (Drill, abandon, etc.)
 and our report No. P _____, issued in answer thereto, are hereby cancelled
 inasmuch as the work will not be done. If you have a drilling bond on file covering this
 notice it will be returned. No request for such return is necessary.

☐ Other: _____

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
Corrected map					10-21-69 ol

F. E. KASLINE
~~E. F. KASLINE~~
 State Oil and Gas Supervisor

By Cecil L. Barton
 Deputy Supervisor

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 3-4663

Santa Maria, Calif. June 2, 1948

Mr. W. C. Johnson,
Los Angeles, Calif.

Agent for Standard Oil Company of California

DEAR SIR:

Your proposal to alter casing Well No. "Tognazzini" 43-A,
Section 10, T. 8N., R. 32W., S. B. B. & M., Cat Canyon Field, Santa Barbara County,
dated May 12, 1948, received May 28, 1948, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS: The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

Total Depth: 3888' Plugged: 3700'

1. Complete casing record.

10 3/4" cemented 1874' WSO

1834' of 8 5/8" landed 3699', perf'd 2965-3048', 3090-3170', 3253-3699'.

Condition of Casing: No record of bad pipe.

2. Last produced. March, 1940 Est. 35 B/D Est. 28 B/D water ---
Date Net oil --- --- ---

PROPOSAL:

"The proposed work is as follows: Confirming conversation (Laurent - Dolman) 7/18/47

(1) Abandon hole as an oil well without plugging, capping or altering casing; i.e., in its present condition.

(2) Install necessary surface facilities and convert to a waste water injection well, following a trial injection period now considered conclusive and satisfactory.

Summary of water injection rates:

Month	Days Injected	Average Daily Rate Bbls.	Injection Pressure PSI
October 1947	25	770.	829
November 1947	29	786	880
December 1947	30	848	871
January 1948	31	802	855
February 1948	26	807	900
March 1948	26	799	896"

DECISION:

THE PROPOSAL IS APPROVED.

accept above information as subsequent report of operations and place records in regular file

Dolman-RMB 9/10/49

Blanket bond.

R. D. BUSH

State Oil and Gas Supervisor

By [Signature] Deputy

CC - Mr. J. H. Thatcher
Mr. F. H. Johnson
115 121
6-2-48
11-2-48

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

** Alter Casing*
Notice of Intention to ~~Abandon~~ Well

This notice must be given at least five days before work is to begin

Los Angeles Calif. May 12, 1948

DIVISION OF OIL AND GAS
Gibson-Drexler Building
Santa Maria, Calif.

DIVISION OF OIL & GAS
RECEIVED
MAY 28 1948

SANTA MARIA, CALIFORNIA

In compliance with Secs. 3228, 3229, 3230, 3231 and 3232, Ch. 93, Stat. 1939, notice is hereby given
** alter casing at*
that it is our intention to ~~abandon~~ well No. Tognazzini 43A as an oil well

Sec. 9, T. 8 N., R. 32 W., S.B.B. & M. Gato Ridge Area, Cat Canyon Field,

Santa Barbara County; commencing work on the --- day

of --- 19 ---

The present condition of the well is as follows: Total Depth: 3888' Plugged: 3700'

1. Complete casing record.

10 3/4" cemented 1874' WSO
1834' of 8 5/8" landed 3699', perf'd 2965-3048', 3090-3170', 3253-3699'.

Condition of Casing: No record of bad pipe.

2. Last produced. March, 1940 Est. 35 B/D Est. 28 B/D water ---
Date Net oil ~~none~~ OK

The proposed work is as follows: Confirming conversation (Laurent - Dolman) 7/18/47

- (1) Abandon hole as an oil well without plugging, capping or altering casing; i.e., in its present condition.
- (2) Install necessary surface facilities and convert to a waste water injection well, following a trial injection period now considered conclusive and satisfactory.

Summary of water injection rates:

Month	Days Injected	Average Daily Rate Bbbs.	Injection Pressure PSI
October 1947	25	770	829
November 1947	29	786	880
December 1947	30	848	871
January 1948	31	802	855
February 1948	26	807	900
March 1948	26	799	896

Orig: DOG

cc: JET

JHT

MC File

Santa Barbara Planning Comm.-2

Standard Oil Company of California

(Name of Operator)

By *J.H. Thacher*
J.H. Thacher, Mgr. Prod. Dept. So. Dist.

ADDRESS NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

*RMB

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(063-01655) DIVISION OF OIL AND GAS

LOG OF OIL OR GAS WELL

Operator The Petrol Corporation Field Cat Canyon (Gato Ridge Area)
Well No. "Tognazzini" 43A Sec. 910, T. 8N, R. 32W, S.B. B. & M.
Location 3639.28' S. & 4161.81' E. from NE Cor. Rancho Los Alamos Elevation 1415.8 D.F.

In compliance with the provisions of Chapter 718, Statutes of 1915, as amended, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date November 18, 1937

Signed Alex Diepenbroek
Title General Mgr
(President, Secretary or Agent)

Alex Diepenbroek
(Engineer or Geologist)

E. E. Hampton
(Superintendent)

Commenced drilling May 4, 1937 Completed drilling May 30, 1937 Drilling tools Rotary

Total depth 3798 3898 Plugged depth 3700 GEOLOGICAL MARKERS Monterey DEPTH 1369

Junk 1416
153

Commenced producing July 31, 1937

(date)

Flowing/gas lift/pumping
(cross out unnecessary words)

Initial production

Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
800 b/d rate (6 hrs.)	14°				
Shut in					

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Casing landed in	Number of Sacks of Cement	Depth of Cementing if through perforations
10 3/4	1874		40.5	New	Seamless	C	15 1/2"	250	
8 5/8	3699	1865	36	"	"	C	9 7/8"		

PERFORATIONS

Size of Casing	From	To	Size of Perforations	Number of Rows	Distance Between Centers	Method of Perforations
8 5/8	2965.5 ft.	3048.1 ft.	3/8" diameter	16	1 1/2"	Round holes
	3089.8 ft.	3170.4 ft.	" "	16	1 1/2"	" "
	3253.4 ft.	3433.4 ft.	" "	16	1 1/2"	" "
	3433.4 ft.	3699.3 ft.	0.400" x 2"	8	6"	Slots - Pacific

Electrical Log Depths 200' - 3884'

(Attach Copy of Log)

12

THE PETROL CORPORATION

Well No.

Tognazzini 43-A

Gato Ridge Oil Field

Section ¹⁰ 7, T. 8 N., R. 32 W., S. B. B. & M.

Location: 3639.28' S. & 4161.81 E. from NE Corner Rancho
Los Alamos

Elevation: 1415.8' Derrick Floor

FORMATIONS PENETRATED BY WELL

0 - 1048	Drilled shale
1048 - 1050	Drilled hard shale
1050 - 1600	Drilled shale
1600 - 1663	Drilled hard shale
1663 - 1688	Cored. Recovered 25'. 25' Claystone, dark greenish gray, brittle, conchoidal, with incipient fractures. Fish fragments scattered. Vague dips (?) 15° approximately.
1688 - 1703	Core. Recovered 21'. 17' cuttings of above claystone. 4 Claystone as above. Forams (?) common.
1703 - 1727	Core. Recovered 18'. 15 cuttings of above. 3 Claystone as above with few fragments of oily silt at bottom.
1727 - 1750	Recovered 12'. 1 Siltstone, gray with brown oil stains, very fine sandy, massive, good oil shows and odor. 1 Claystone as above. 10 cuttings and cavings of above with some fragments of claystone hard cemented.
1750 - 1772	Recovered 22'. 22' Siltstone, gray with dark gray clay patches and with light gray very fine sand spots, all very massive, unbroken and tough. Few fracture planes at 60°. All irregularly oil stained in streaks. No porosity. Not productive.
1772 - 1794	Recovered 21'. 1 Siltstone as above. 2 Claystone, gray, tough, massive with <u>borings</u> and mottled light gray, very fine sand filled nodules, granules and passages. 18' Siltstone as above but with some very fine sandy streaks with oil spots and patches. Incipient vertical jointing throughout.

Well No. Tognazzini 43-A (cont.)

1794 - 1819	Recovered 21'. 4' Cuttings of claystone. 17' Claystone, dark gray, slightly brittle, very silty, somewhat conchoidal. Forams scattered. Fish fragments.
1819 - 1869	Drilled shale
1869 - 1874	Drilled hard brown shale <u>Top of Monterey 1869</u> (Schlumberger and change in drilling)
1874 - 1884	Recovered 8'. 6' Claystone, brown, massive, unbroken, dense, fairly hard, tough. large fish scales scattered. Drussey pyrite nodules common. Arenaceous forams (?). No oil. 2' Claystone, brown, hard cherty, oil on incipient fractures, massive, unbroken.
1884 - 1905	Drilled hard shale
1905 - 2470	Drilled shale
2470 - 2480	Cored. Recovered 3'. Claystone, brown, fairly hard, massive, few silty spots. Near bottom is a $\frac{1}{2}$ ' bed of laminated brown claystone, with dip of 45°. One vertical fracture with spot of heavy oil. Arenaceous forams (?).
2480 - 2650	Drilled shale.
2650 - 2665	Cored. Recovered 2'. 2' Claystone, brown, hard with some light brown cherty banding, and also some light gray silt laminations. Few oil spots. Dip 50°. Arenaceous forams?
2665 - 2759	Drilled shale
2759 - 2776	Cored. Recovered 10'. 10' Claystone, brown, fairly hard, massive, with silty spots and patches, sub-conchoidal. Arenaceous forams. Two 80° fractures without oil.
2776 - 2844	Drilled shale
2844 - 2854	Drilled hard shale
2854 - 2884	Drilled shale
2884 - 2901	Cored. Recovered 16'. 14' Claystone, brown, tough, thinly interbedded with brown and gray laminated diatomaceous claystone, badly shattered in streaks but rock is not brittle enough to be productive. No oil showing. 8' from top is a 3" streak of lime stone showing oil. 2' claystone as above, but hard. Not productive. No oil. No silicification. All rather light weight and having the appearance of being diatomaceous.

Well No. Tognazzini 43-A (cont.)

- 2901 - 3001 Drilled shale with hard streaks.
- 3001 - 3011 Recovered 9'.
9' Siltstone, gray massive, clayey, tough, bedded in places with very fine sandy clay. Good fissility in some beds with dips of 20° - 25° Fish remains. Buff colored small inclusions.
- 3111 - 3130 Recovered 18'.
18' Siltstone, gray, tough as above inter laminated and inter-bedded with gray claystone. Mostly thinly bedded but some streaks are massive. Toward bottom, rock is mostly claystone with diatom (?) impressions and diatomite fracture. Some thin streaks are slightly calcified. No silicification. On scattered spots are large tar spots. Some bedding planes show lighter (18° gravity) oil. Dips 15-20°.
- 3130 - 3231 Drilled shale with hard streaks
- 3231 - 3248 Cored. Recovered 17'.
17 Siltstone as 3001-11'. Tar spots scattered.
- 3248 - 3348 Drilled shale with hard streaks.
- 3348 - 3366 Cored. Recovered 17'.
17' Claystone, brown, dense hard, brittle, massive, semi-conchoidal cleavage, mostly silicified. Few opalized fractures near bottom showing oil. Oil spots scattered.
Top of siliceous shale at 3275 (driller)
- 3366 - 3349 Drilled broken shale with hard streaks.
- 3349 - 3469 Drilled shale with hard streaks.
- 3469 - 3485 Recovered 4'.
4' Claystone, brown and light gray, brittle, contorted, slicken-sided and fractured. Cherty and oily in streaks.
- 3485 - 3503 Recovered 11'.
11' Claystone same as 3348-3366', and with some streaks as 3469 - 3485'.
- 3503 - 3570 Drilled hard shale
- 3570 - 3601 Drilled shale with hard streaks.
- 3601 - 3619 Cored. Recovered 2'.
2' Claystone as 3469-85.
- 3619 - 3633 Cored. Recovered 7'.
7' Claystone as above

18
13
14
- 4 - 1 - 3
3255
18 69
- 1386

Well No. Tognazzini 43-A (cont.)

- 3633 - 3732 Drilled shale with streaks of hard shale.
- 3732 - 3750 Drilled sticky shale.
- 3750 - 3760 Recovered 10. Serpentine, green and dark green, slick, soapy, brecciated, broken, gouged, shattered with some fragments not serpentinized.
Top Serpentine at 3732' (driller)
- 3760 - 3778 Recovered 5. Lithology as above.
- 3778 - 3798 Cored. Recovered 16'.
16' Lava, dark greenish gray with very common slickensided surfaces. Shows vesicular structure, secondary mineralization and some cinnabar. Some serpentinization.

3798
3732
66

3778
16'
362

- 2362

Top Base = 3732
1416
32016

3798
3732
66

3732
1416
32016

3778
16'
362

HISTORY

Operator-THE PETROL CORPORATION

Field - Cat Canyon (Gato Ridge Area)

Well No. Tognazzini 43-A

Sec. ¹⁰~~9~~ T. 8 N., R. 32 W., S.B.B. & M.

1937

5-4 Began drilling 15½" hole.

5-5 Lost circulation at 591'. Drilled ahead without circulation.

5-6 Began coring 10 5/8" hole at 1663'.

5-8 Cored 10 5/8" hole to 1884'. Drilled to 1905'. Ran Schlumberger electrical coring device and recorded from 200' to 1878'.

CEMENTED 10-3/4" CASING AT 1874' WITH 100 SACKS VELO 24 HOUR CEMENT.

Casing is J. & L. 40.5 lb. Seamless Grade C Range 3 pipe.

5-9 Located top of cement at 1859'.

5-10 Drilled out plugs and cement 1859' - 1881'. Located casing shoe at 1874'. Ran Shaffer tester twice without success. Repaired valve and set packer at 1862'. Opened valve for 30 minutes. 22' of thick mud was brought up in the drill pipe.

The 10 3/4" shut-off was approved by the State Division of Oil & Gas.

5-22 Drilled and cored ahead with 9 7/8" hole at intervals with mud circulation. At about 3735' mud thinned excessively, indicating that water had entered the hole. The temperature of the circulating ^{fluid} was excessive. Ran Schumberger at 2590' and 3660'.

5-25 Reached final depth of 3888'. Ran Schlumberger at 3654 - 3884'. With drill pipe hanging at 3885', pumped in 90 sacks of Santa Cruz cement. Made Sperry-Sun survey to 3590'.

5-27 Reamed 9 7/8" to 3700'. Top of cement at 3600'.

5-28 Re-reamed 9 7/8" from 1874 to 3700'. Conditioned mud.

5-29 Landed 1835' of 8 5/8" 36 lb. Spang-Chalfant ~~Extreme~~ fine grade C new seamless casing at 3699' as follows: Top of liner 1865. Top of perforations 2961.

1865'	Top of liner			
4.5	Grant liner hanger			
1096'	Blank			
87.6	Perforated 3/8" round holes, 16 row staggered 1½" centers			
41.7	Blank			
80.6	Perforated	"	"	"
83.0	Blank			
180.	Perforated	"	"	"
265.9	"	0.400" x 2" slots, 6 rows on 6" centers		
		Baker cement shoe on bottom.		
<u>3699.3</u>				

HISTORY - Page #2.

1937

- 5-30 Made up 1744' 4 3/4" tubing.
- 5-31 Idle.
- 6-1/5 Bailed
- 6-6/25 Idle
- 6-26 Ran tubing and washed well.
- 6-28 Installed pumping unit.
- 6-30 Ran rods.
- 6-31 Pumped well 6 hrs. 800 b/d rate. 14° gravity, 10% cut.
Shut down: no storage at well. No pipe line facilities.

Operator - THE PETROL CORPORATION

Field: Cat Canyon (Gato Ridge Area)

Well No. Tognazzini 43-A

Sec. ¹⁰9, T. 8 N., R. 32 W., S.B.B. & M.

DRILLERS:

L. H. Billingsley
Tom Hotz
G. C. Hoslett
L. N. Ellis
E. E. Hampton, Superintendent

DERRICK MEN:

John Rice
Francis Rice
Bob Mitchell
Ray Stoneburner

PRESENT CONDITION OF WELL:

10 3/4" Cemented 1874'
8 5/8" Landed 1865' to 3699'

Perforated as follows:

2965.5' to 3048.1'
3089.8' to 3170.4'
3253.4' to 3699.3'

Total Depth 3798'
Plugged to 3700'

Compiled by:
Alex Diepenbrock, Engineer
Luis E. Kemnitz, Geologist
November 18, 1937

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

No. T 3-1497

Santa Barbara, Calif. May 12, 19 37

Mr. J. D. McGregor,

Santa Maria, Calif.

Agent for The Petrol Corporation

DEAR SIR:

Your well No. "Tognazzini" 43-A, Sec. 9 10, T. 8 N., R. 53 W., S.B. B. & M.,
Cat Canyon (Gato Ridge) Field, in Santa Barbara County, was tested for
shut-off of water on May 10, 19 37. Mr. D.H. Fortine of Barnsdall Oil Co.,
designated by the supervisor, was present as prescribed in Section 19, Chapter 718, Statutes 1915, as amended, and there
were also present E. E. Hampton, Supt. and Thos. Hotz, driller

Location of water tested Above 1874' and normal fluid level Not reported
Depth and manner { 1874 ft. of 10-3/4 in. 40.5 lb. } casing was { cemented } in shale
of water shut-off: { ft. of in. lb. } { ~~sampled~~ } 5/8/37 Formation
at 1874 ft. with 250 sacks Velo cement by Casing method.
Water string was landed in 15 1/2" rotary hole.
Casing record of well 10-3/4" as above only Size, rotary or cable tool

Reported total depth of hole 1905 ft. Hole bridged from - ft. to - ft. Hole cleaned out to 1881 ft. for this test.
At time of test depth of hole measured - ft. and bailer brought up sample of --
At See below oil bailed to - ft., drilling fluid { bailed } to -- ft.
At -- Time and date top of oil found at - ft., top of fluid found at -- ft.

Deputy Supervisor Dolman arrived at the well at 10:00 a.m.

MR. HAMPTON REPORTED THE FOLLOWING:

1. No casing test was made.
2. 15' of set cement was drilled out of the 10-3/4" casing, equivalent to 7 sacks.
3. All of the cement used was quick-setting cement.
4. The Shaffer tester had been run in the hole but the valve did not work. Mr. Hampton estimated the test would be ready to witness at 2:00 p.m.
5. Deputy Supervisor Dolman again visited the well at 2:00 p.m. and it was estimated the test would be ready at 7:00 p.m. The Deputy Supervisor requested that Mr. D. H. Fortine of Barnsdall Oil Company be called to witness the test when ready.

(Continued)

R. D. BUSH

State Oil and Gas Supervisor

By Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off
OR
Special Report on Operations Witnessed

No. T 3-1497

Page 2

The Petrol Corporation

Well No. "Tognazzini" 43-A, Sec. 9 10, T. 8 N., R. 32 W., S.B. B. & M.

MR. FORTINE NOTED THE FOLLOWING:

1. The Shaffer tester had been run in the hole.
2. The packer was reported set at 1862'.
3. The space between the 5" drill pipe and the 13-3/8" casing was filled with mud fluid and remained in that condition during the test, demonstrating that the packer prevented any migration of fluid between drill pipe and casing.
4. The tester valve was opened at 6:55 p.m. and remained open for 30 min. A moderate amount of air issued from the drill pipe for half a minute. A small amount of gas then flowed by heads during the test.
5. When the drill pipe was pulled out, approximately 22' of fluid was found in the drill pipe, equivalent to 0.5 bbl.
6. The fluid consisted of thick mud with few gas bubbles.

^{10 3/4"} ^{AT 1874}
THE SHUT-OFF IS APPROVED.

This work was not witnessed by a member of this Division for the reason that no inspector was available, but was witnessed as noted above and the above information was furnished by Mr. D. H. Fortine of Barnsdall Oil Company.

CC - E. E. Hampton
- The Petrol Corp., L. A.

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

Name	Model	Crown Section	Covers	Pockets	
				114	121
				5-12-37 ✓	5-12-37 ✓

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 3-2821

Santa Barbara, Calif. May 4, 19 37

Mr. J. D. McGregor,
Santa Maria, Calif.

Agent for The Petrol Corporation

DEAR SIR:

Your proposal to drill Well No. "Tognazzini" 43-A,
Section 8/0, T. 8 N., R. 32 W., S. B. B. & M., Cat Canyon (Gato Ridge), Santa Barbara County,
dated Apr. 26, 1937, received May 4, 1937, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

1415.8

"The elevation of the derrick floor above sea level is 1412 feet. Ground
Elevation, (3439.38' S. & 4161.81' E.)

The well is 1140 feet S. and 4161 feet E. from N.E. Corner Rancho Los
Alamos

We estimate that the first productive oil or gas sand should be encountered
at a depth of about 3800' feet, more or less.

Well is to be drilled with rotary tools."

PROPOSAL:

"We propose to use the following strings of casing, either cementing or landing
them as herein indicated:

Size of Csg., In.	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
10-3/4"	40	New	1800'	Cemented
8-5/8"	36	New	3400	Landed

It is understood that if changes in this plan become necessary
we are to notify you before cementing or landing casing."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Mud fluid of not less than 70 lb. per cubic foot shall be used in the
drilling of the well and the column of mud fluid shall be maintained
at all times to the surface, particularly while pulling the drill pipe.
2. Adequate blow-out prevention equipment shall be provided and ready for
operation at all times.
3. THIS DIVISION SHALL BE NOTIFIED TO WITNESS:
A bailing test of the 10-3/4" shut-off.

CC - E. E. Hampton
- The Petrol Corp., L. A.

R. D. BUSH

State Oil and Gas Supervisor

By

Deputy

Map	Model	Cross Section	Carrie	Forms
Map K-2 5-8-37				116 121 5-4-37 5-4-37

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

**DIVISION OF OIL AND GAS
RECEIVED
MAY - 4 1937
SANTA BARBARA, CALIFORNIA**

083-01655

Notice of Intention to Drill New Well
This notice must be given before drilling begins

Los Angeles, Cal. April 26, 1937

Mr. S. G. Dolman

Deputy State Oil and Gas Supervisor

Santa Barbara, Cal.

DEAR SIR:

In compliance with Section 17, Chapter 718, Statutes of 1915, as amended, notice is hereby given that it is our intention to commence the work of drilling well No. "Tognazzini" 43-A, Sec. 9th, T. 8 N., R. 32 W., S. B. B. & M., Cat Canyon Oil Field Santa Barbara County.

Lease consists of

Corrected Location: 3639.28 S. 4161.81 E

The well is 1140 feet ~~N~~ S., and 4161.81 feet E. ~~from~~ from N.E. Corner Rancho Los Alamos
(Give location in distance from section corners or other corners of legal subdivision)

The elevation of the derrick floor above sea level is 1412 feet. Ground Elevation, 1415.8 feet. (Corrected location & elevation in letter of 5/26/37 signed Alex Diepenbroek)

We propose to use the following strings of casing, either cementing or landing them as herein indicated:

Size of Casing, Inches	Weight, Lb. Per Foot	New or Second Hand	Depth	Landed or Cemented
10-3/4"	40	New	1800'	Cemented
8-5/8"	36	New	3400	Landed

Well is to be drilled with rotary tools.

It is understood that if changes in this plan become necessary we are to notify you before cementing or landing casing.

We estimate that the first productive oil or gas sand should be encountered at a depth of about 3800' feet, more or less.

Respectfully yours

Address 4020 Bandini Blvd.,

THE PETROL CORPORATION

(Name of Company or Operator)

Telephone number AN-13143

By Alex Diepenbroek

ADDRESS NOTICE TO DEPUTY STATE OIL AND GAS SUPERVISOR IN CHARGE OF DISTRICT WHERE WELL IS LOCATED

cc: E.F. Hampton,

Map	Model	Grass Section	Chart	114	141
				5-4-37	5-4-37

From most w. by cor T9, H1, Lease
1590.34' S E by oil and prop line
1217.07' N E by at right angles. E. 1415.18
Le. 2/17/47